

FIG. 1A

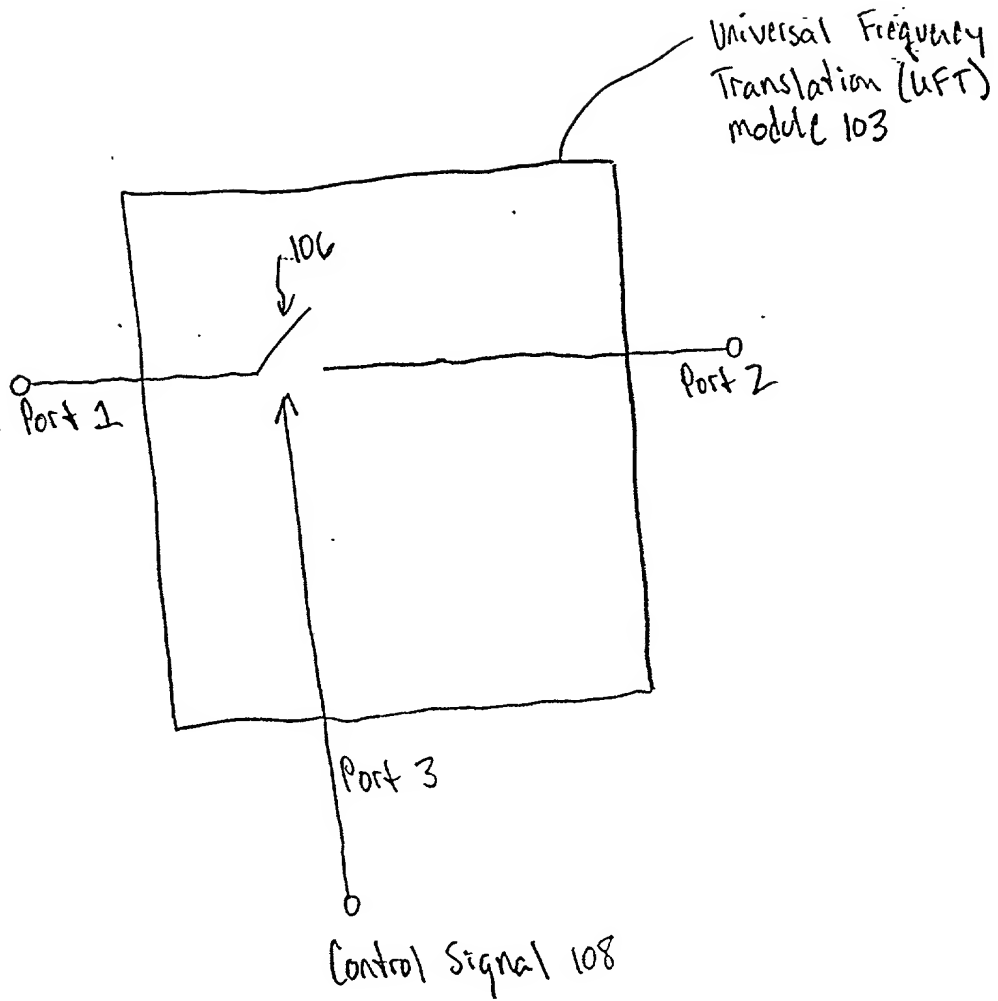


FIG. 1B

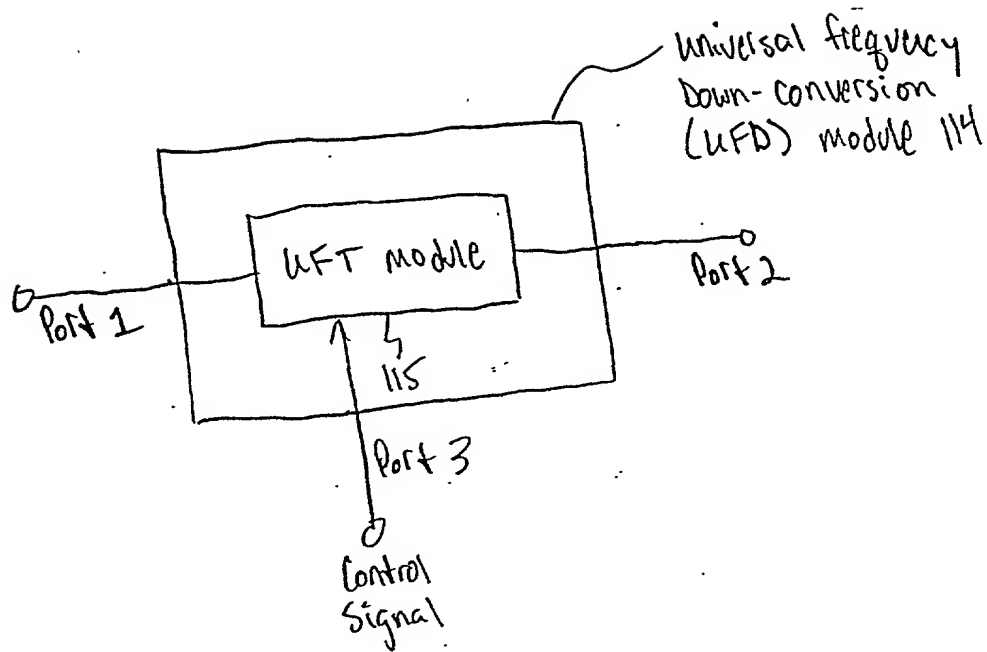


FIG. 1C

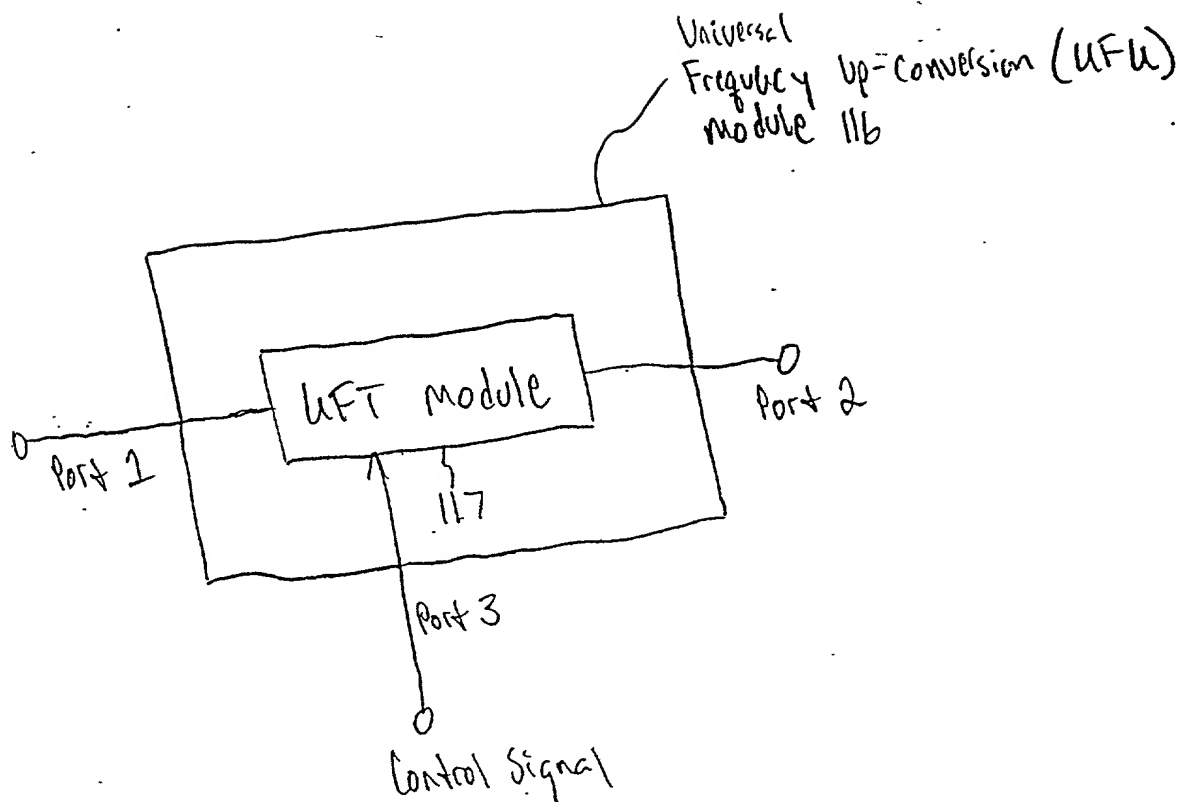


FIG. 1D

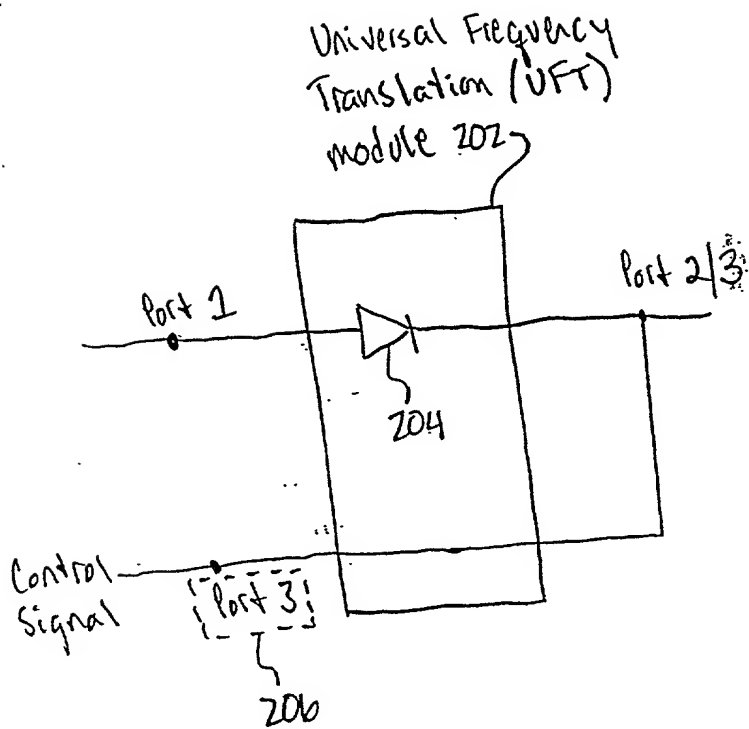


FIG. 2

Universal Frequency  
Up-Conversion (UFU) module 300

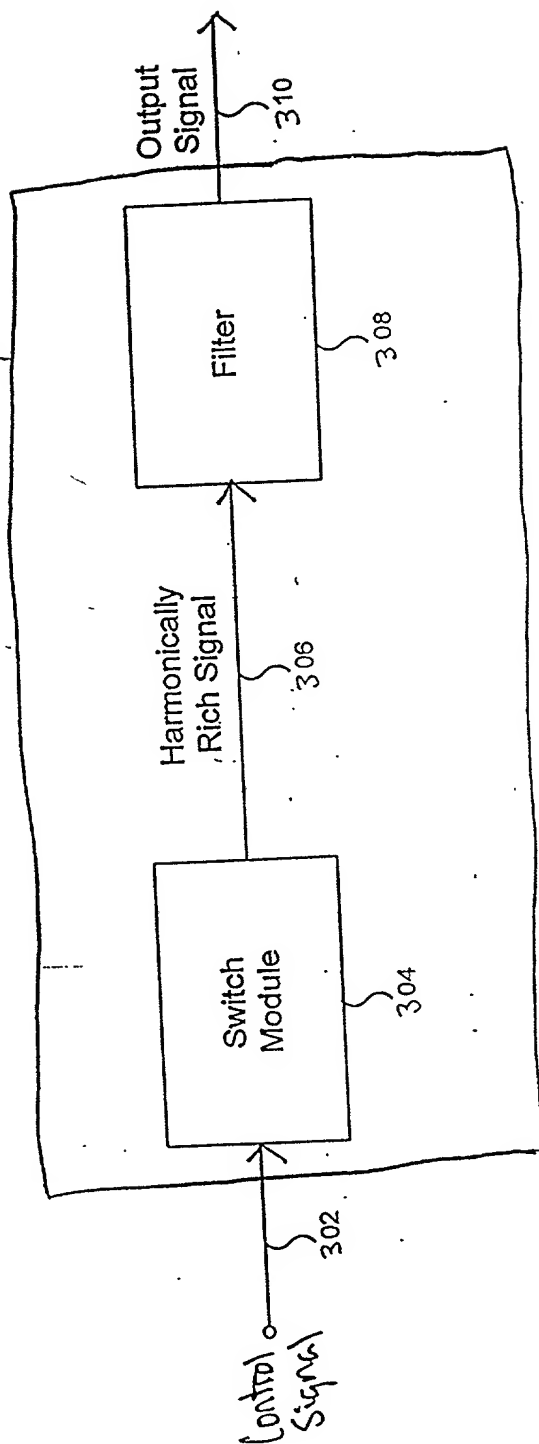
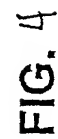


FIG. 3

Universal Frequency  
Up-conversion (VFO) module 401 →



Universal Frequency  
up-conversion  
(UFU) module 500

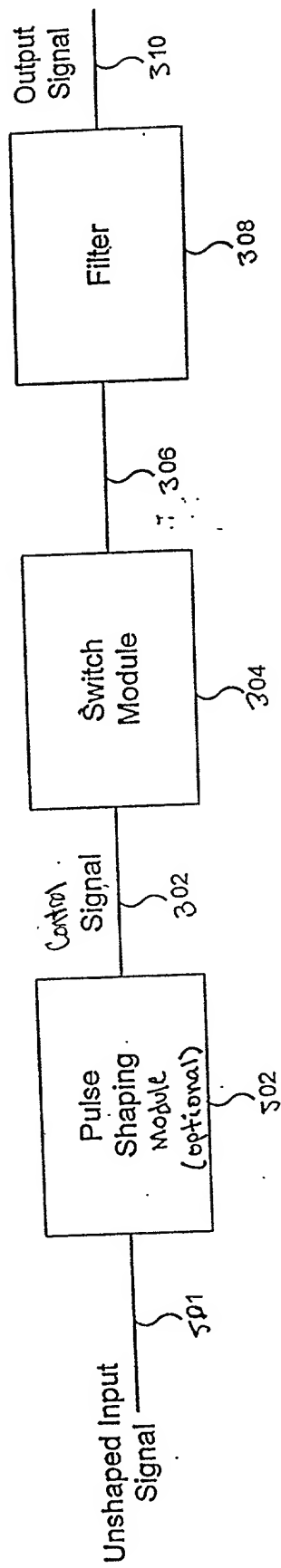


FIG. 5



INFORMATION  
SIGNAL  
602

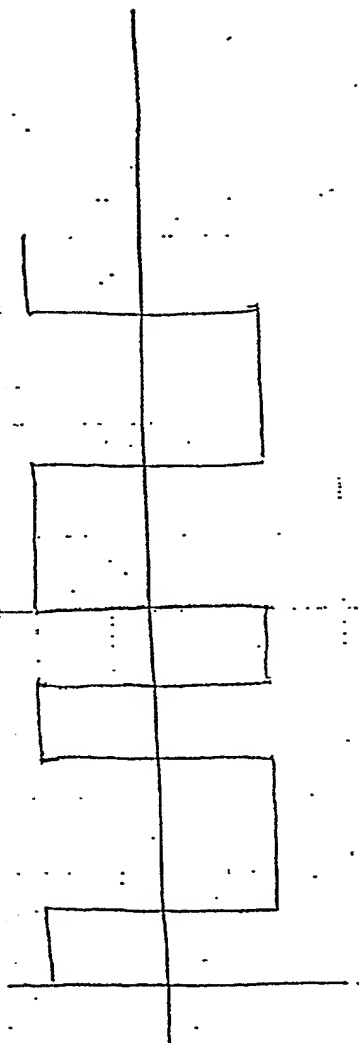


Fig. 6a

OSCILLATING  
SIGNAL  
6.04

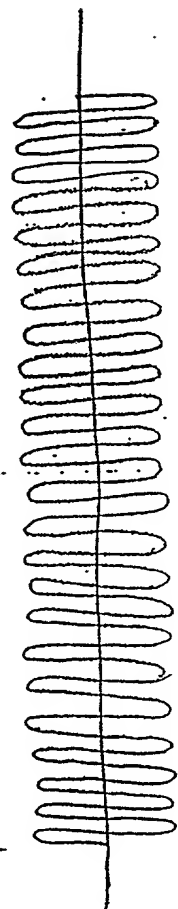


Fig: 18

FREQUENCY MODULATED  
INPUT SIGNAL

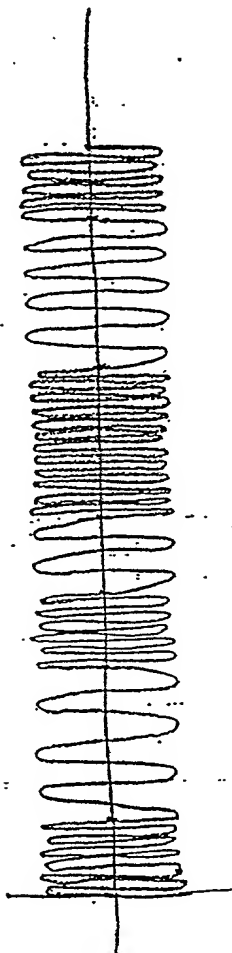


Fig. 6c

801  
HARMONICALLY  
RICH SIGNAL  
(SHOWN AS SQUARE WAVE)

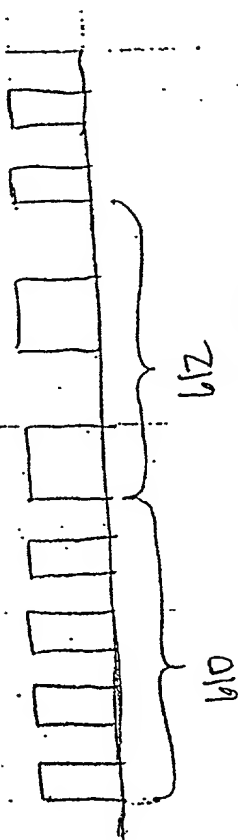


SE-191E

Fig. 6D

٩٤

EXPANDED VIEW OF  
HARMONICALLY RICH  
SIGNAL 608



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JUN 10 1964  
FBI - MEMPHIS

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W  
S

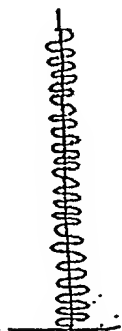
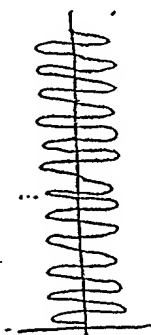
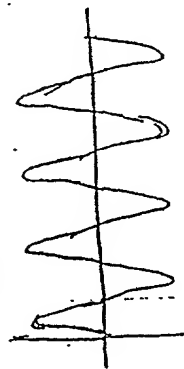


Fig. 4F

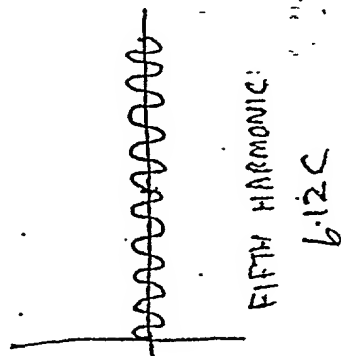
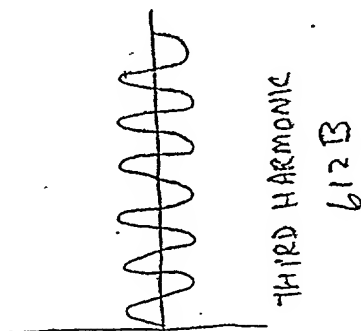
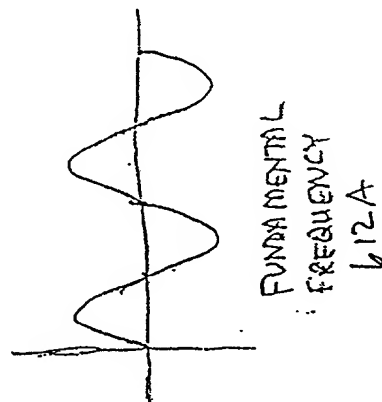


FIG 66

HARMONICS OF  
SIGNAL  $\sin(\omega t)$   
(SHOWN SEPARATELY)

HARMONICS OF  
SIGNAL UZ  
(SHOWN SEPARATELY)

FIG. 6 (cont)

619

FILTERED  
OUTPUT  
SIGNAL

Fig. 6I

FLG-b (cont)

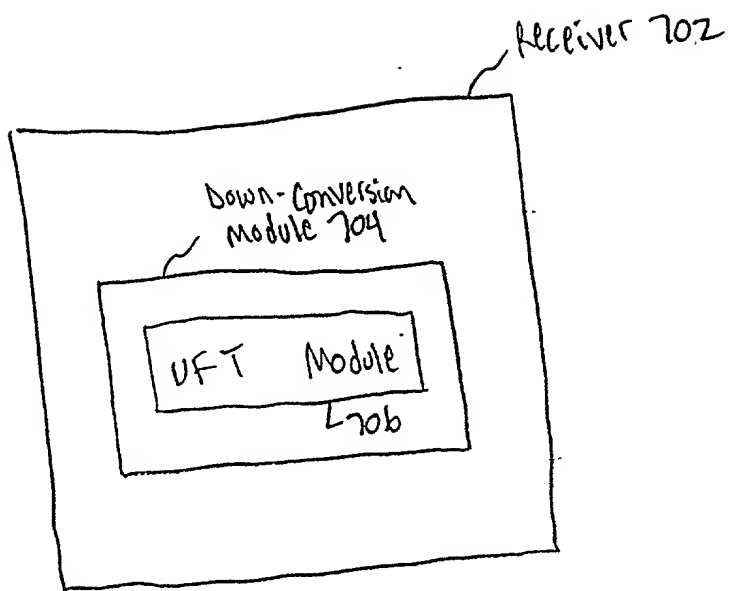


FIG. 7

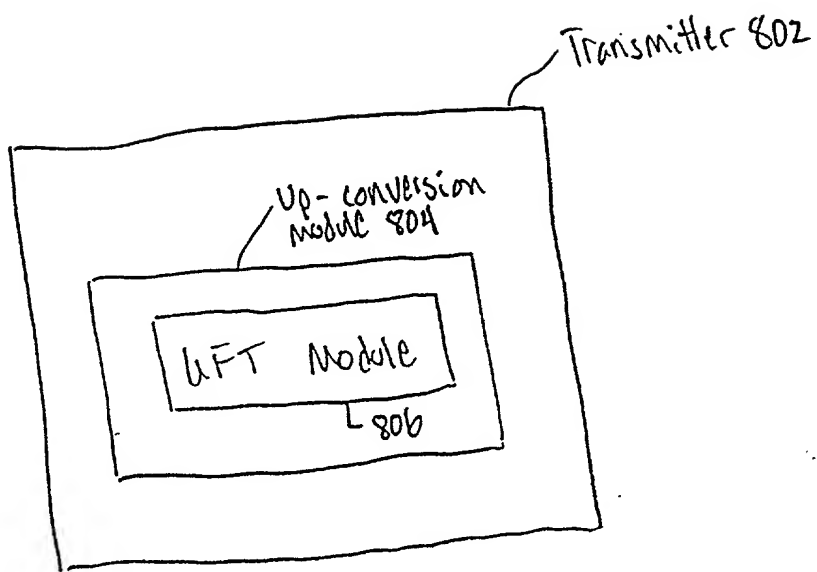


FIG. 8

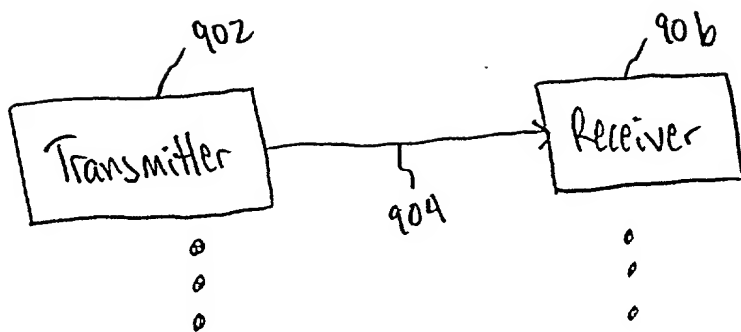


FIG. 9

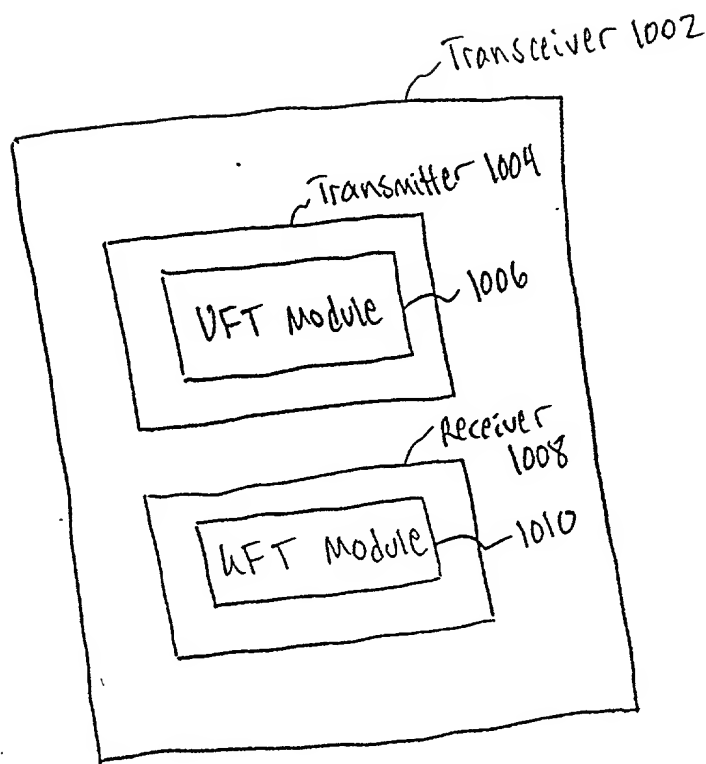


FIG. 10

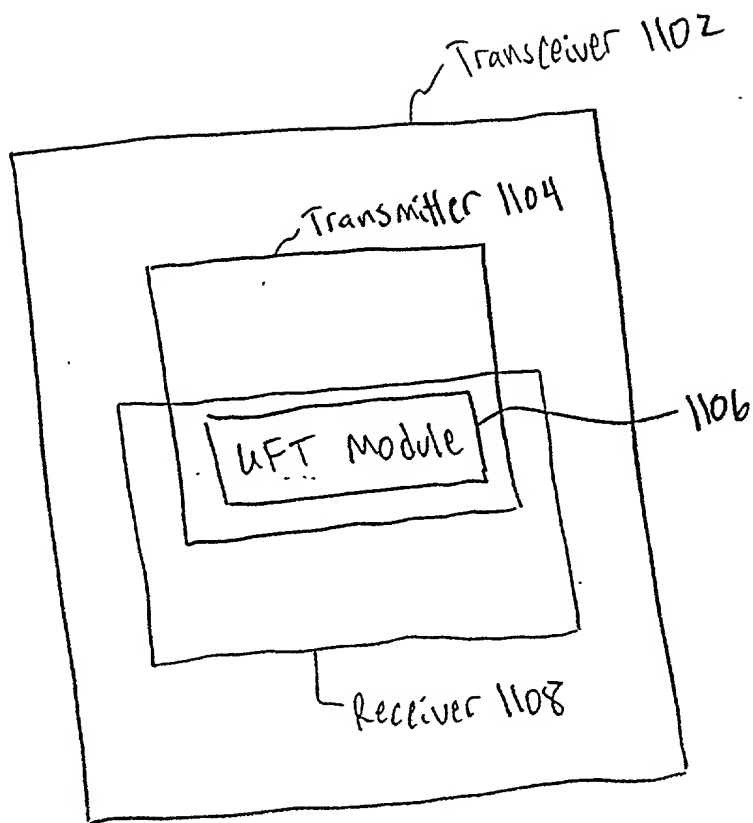


FIG. 11



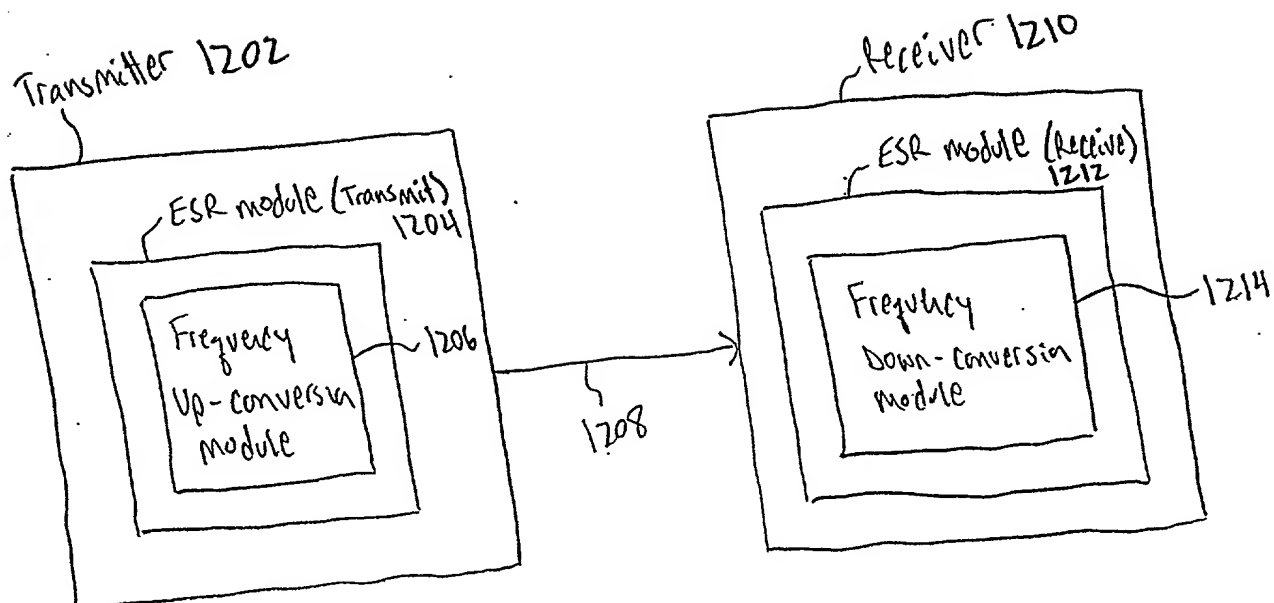


FIG. 12



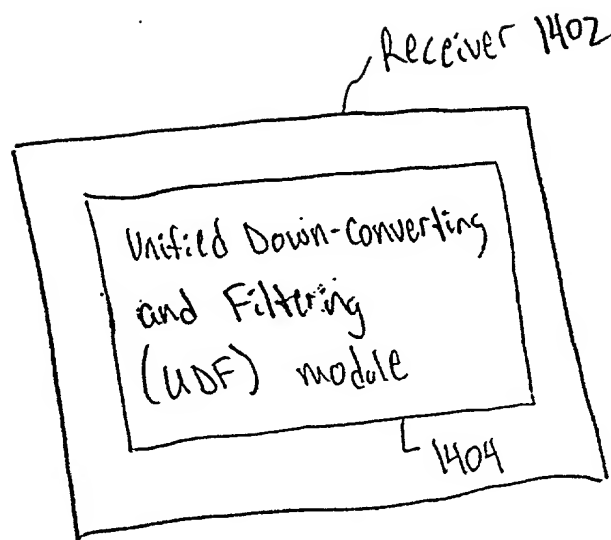
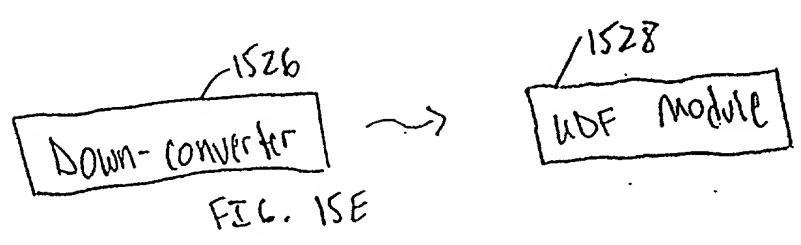
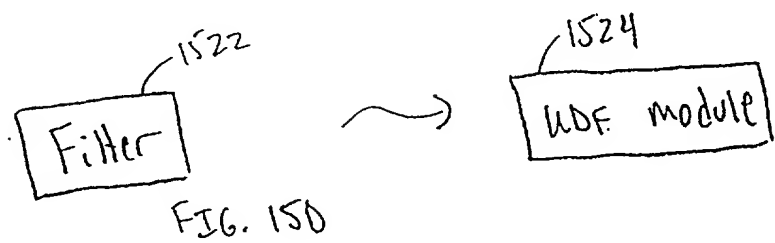
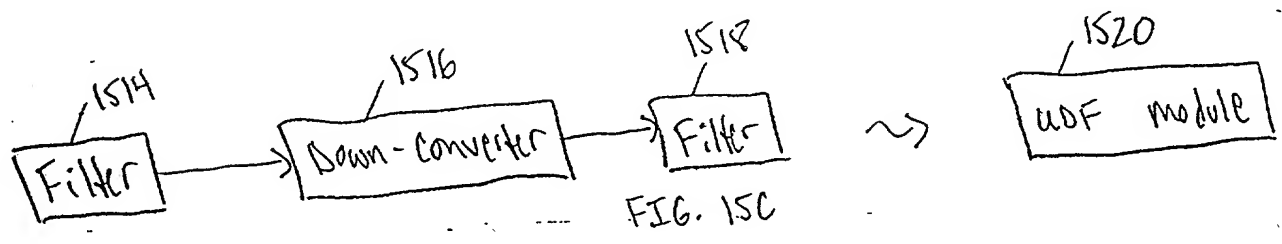
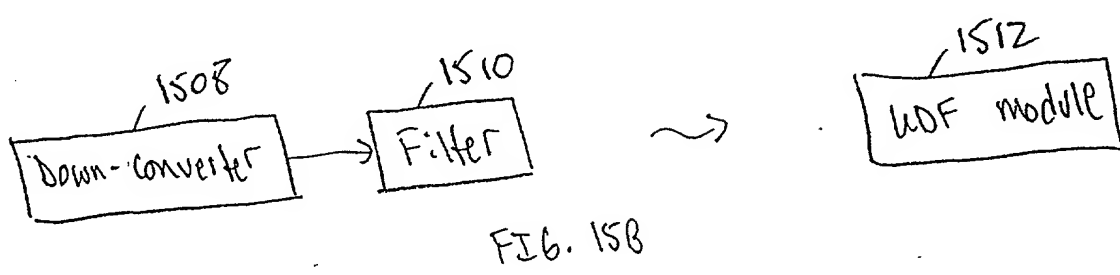
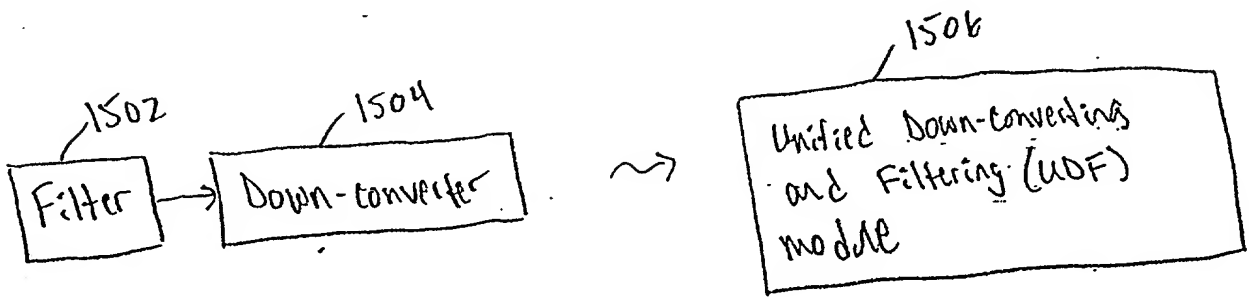


FIG. 14



1530  
Amplifier



1532  
WDF Module

FIG. 15F

2025-03-04 10:00:00

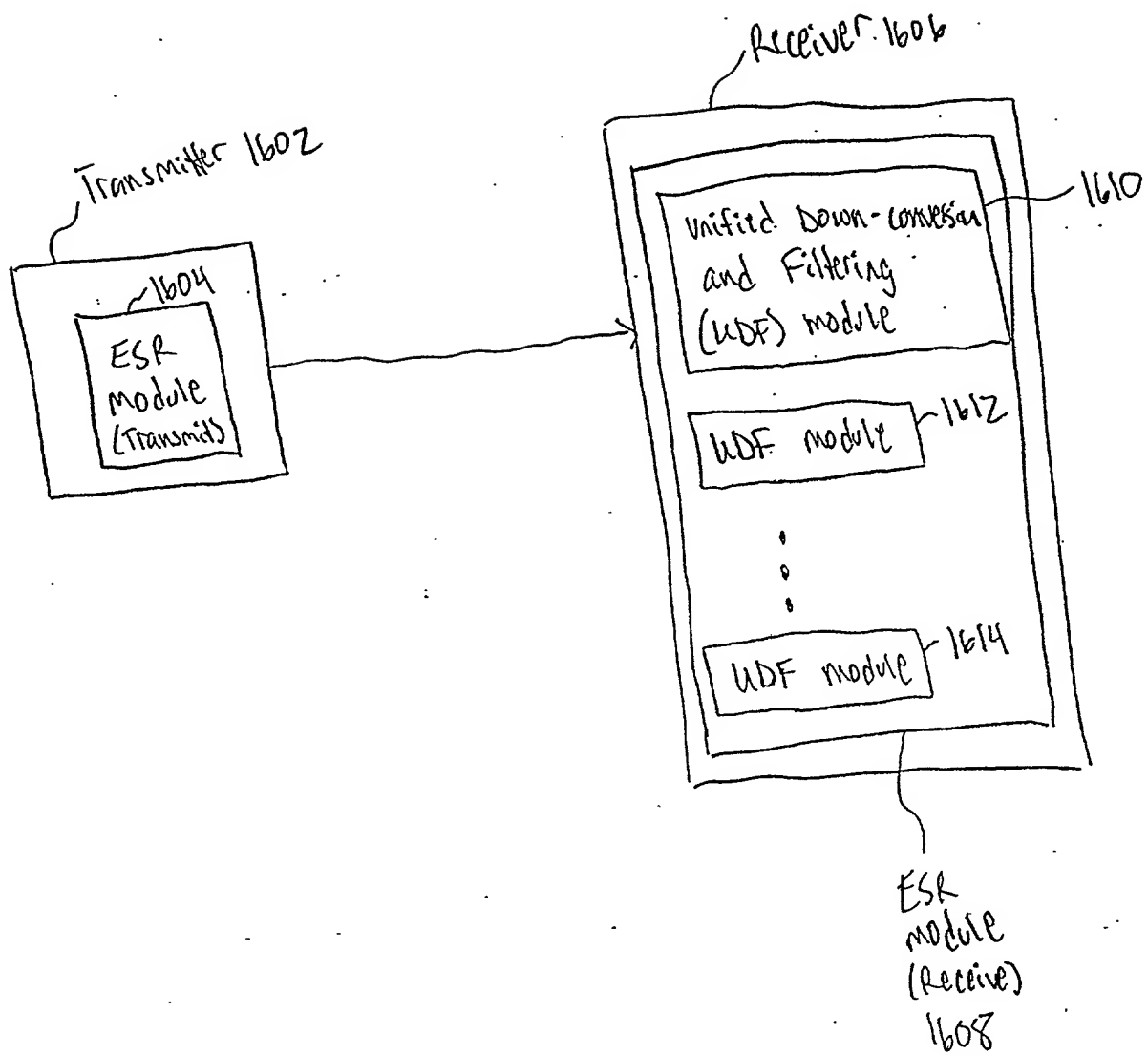


FIG. 16

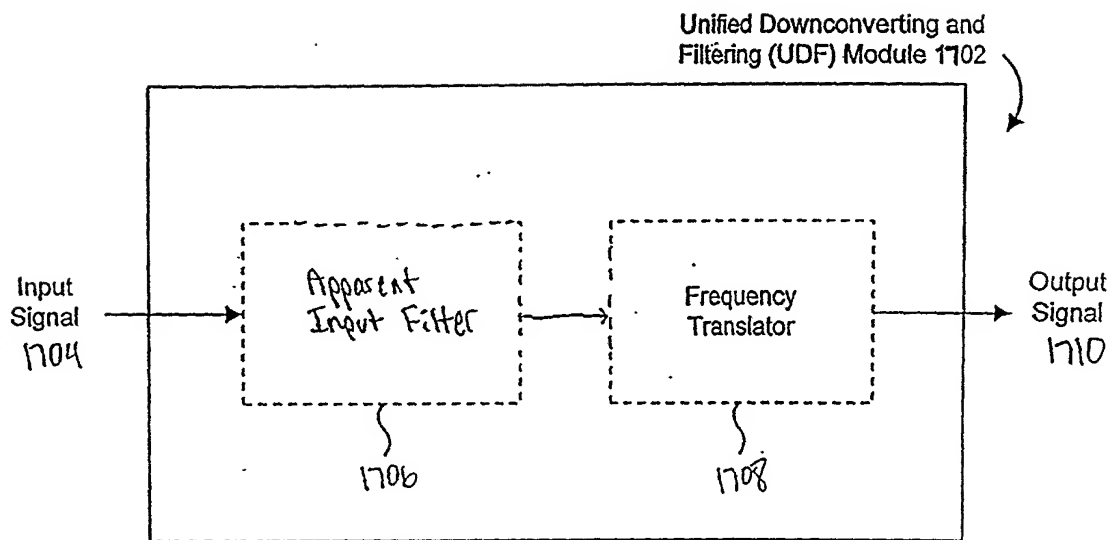


FIG. 17

1802

Time Node	t-1 (rising edge of $\phi_1$ )	t-1 (rising edge of $\phi_2$ )	t (rising edge of $\phi_1$ )	t (rising edge of $\phi_2$ )	t+1 (rising edge of $\phi_1$ )
1902	$VI_{t-1}$ 1804	$VI_{t-1}$ 1808	$VI_t$ 1816	$VI_t$ 1826	$VI_{t+1}$ 1838
1904	—	$VI_{t-1}$ 1810	$VI_{t-1}$ 1818	$VI_t$ 1828	$VI_t$ 1840
1906	$VO_{t-1}$ 1806	$VO_{t-1}$ 1812	$VO_t$ 1820	$VO_t$ 1830	$VO_{t+1}$ 1842
1908	—	$VO_{t-1}$ 1814	$VO_{t-1}$ 1822	$VO_t$ 1832	$VO_t$ 1844
1910	— 1807	—	$VO_{t-1}$ 1824	$VO_{t-1}$ 1834	$VO_t$ 1846
1912	—	— 1815	—	$VO_{t-1}$ 1836	$VO_{t-1}$ 1848
1918	—	—	—	—	$VI_t$ - 1850 $0.1 * VO_t$ $0.8 * VO_{t-1}$

FIG. 18



USE module 1922  
 (band pass)

FIG. 19 - 0595001

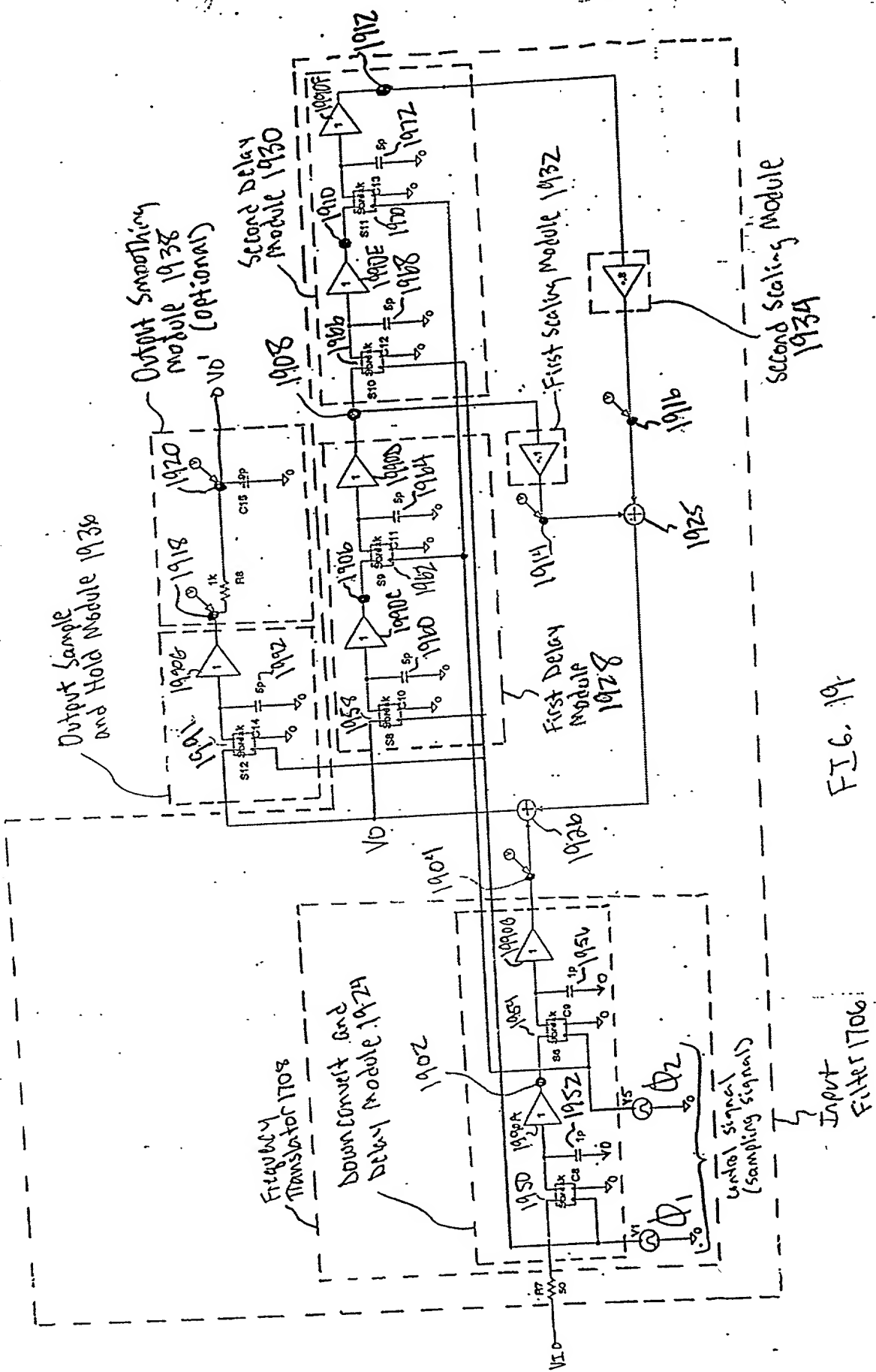


FIG. 19

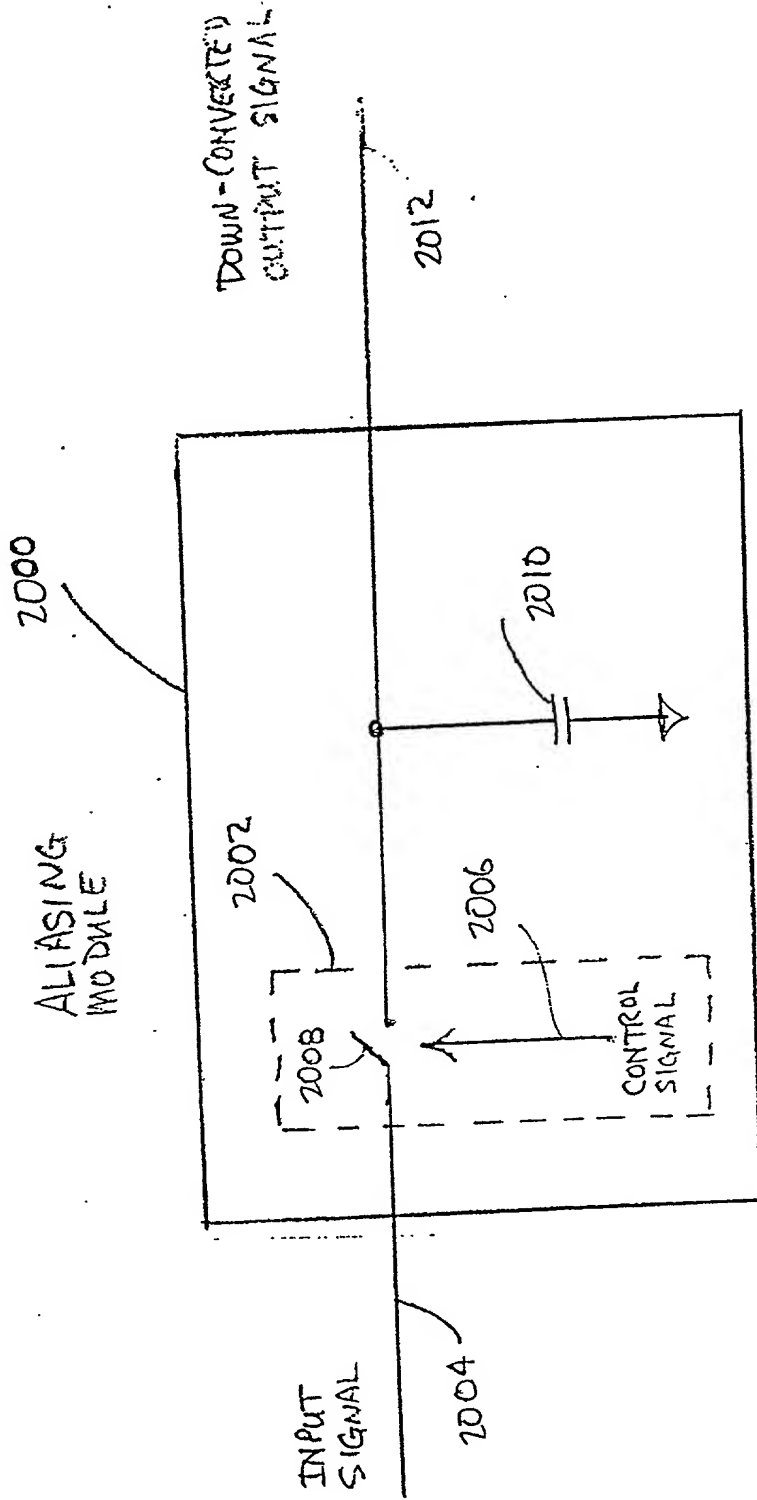


FIG. 20A

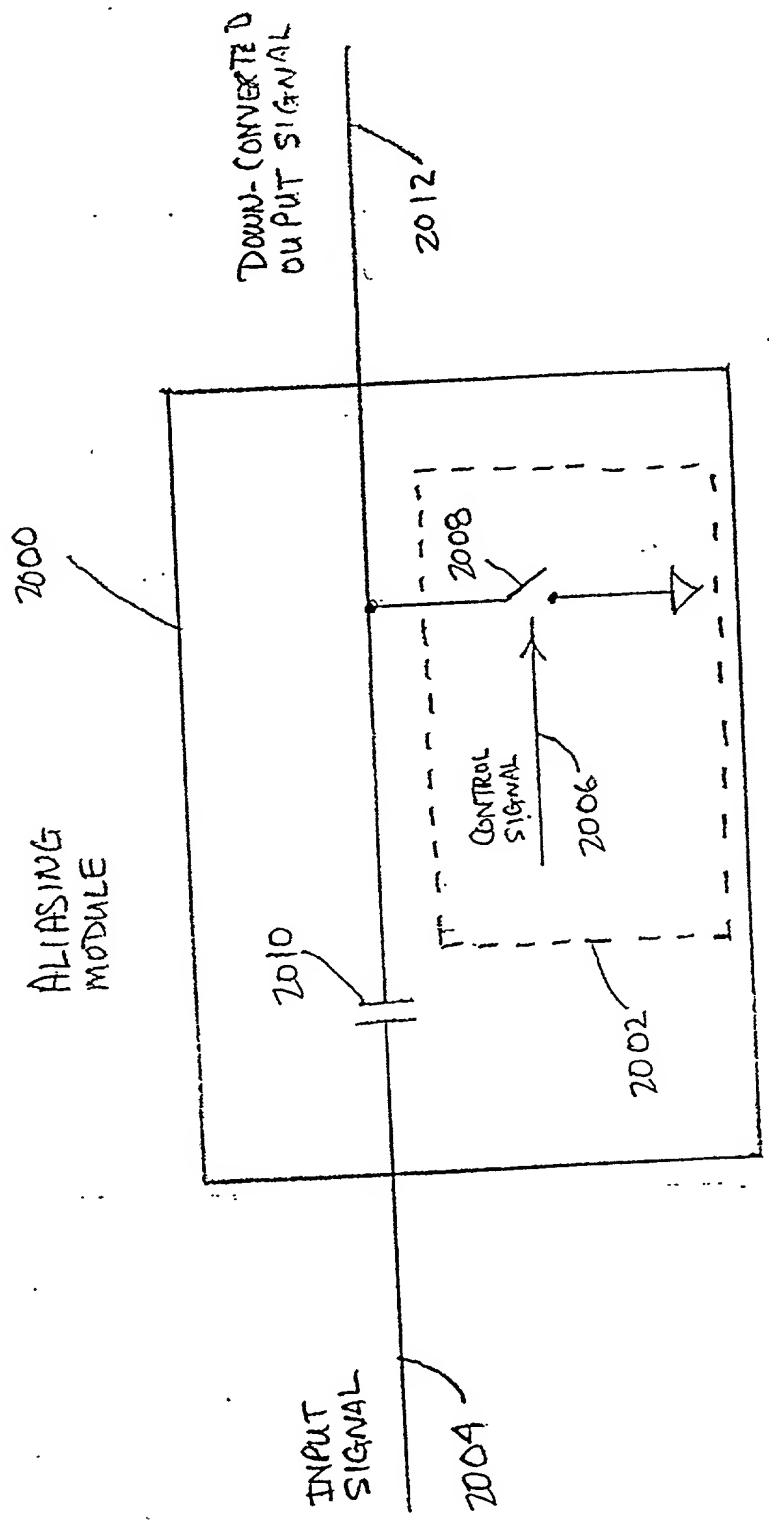


FIG. 20A-1

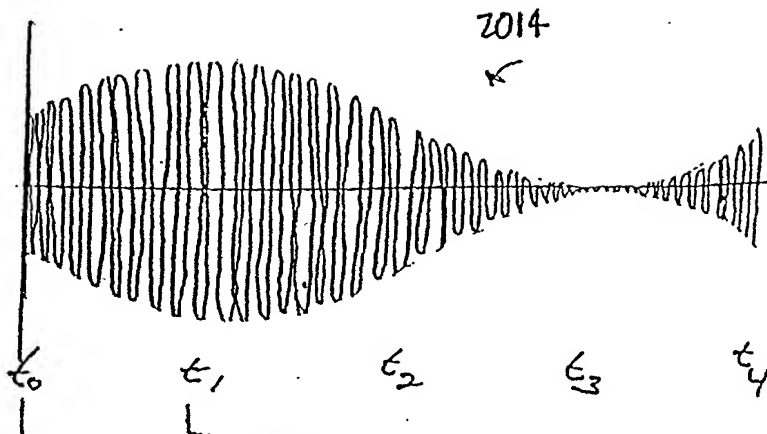


FIG. 20B

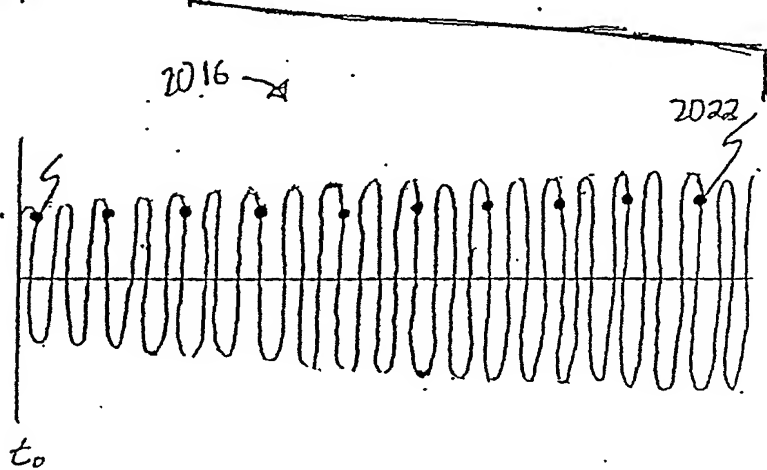


FIG. 20C

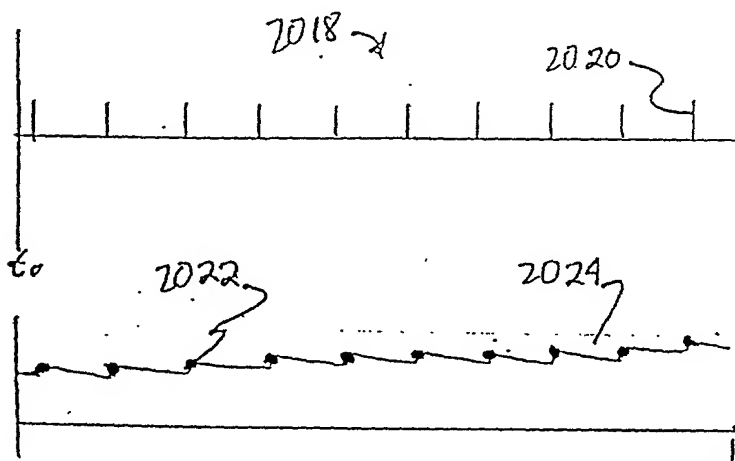


FIG. 20D

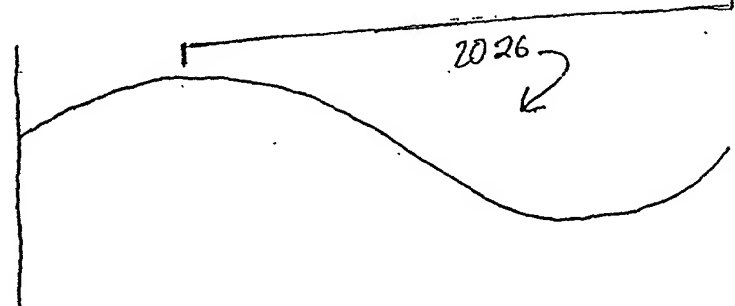


FIG. 20F

2014 2016 2018 2020 2022 2024 2026

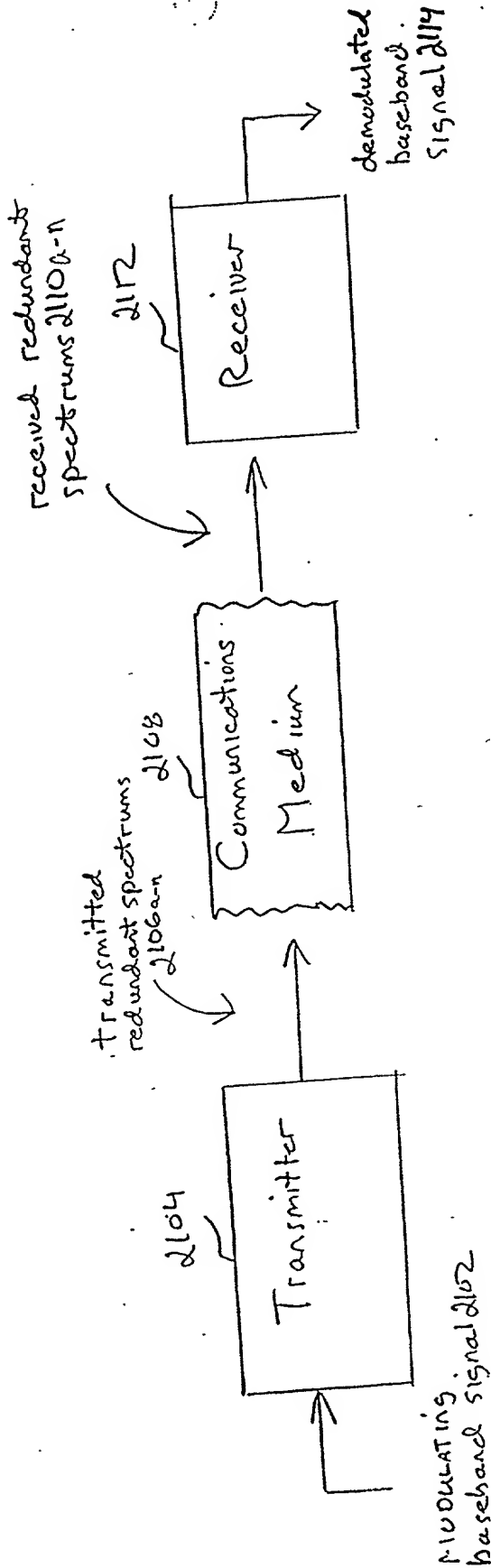
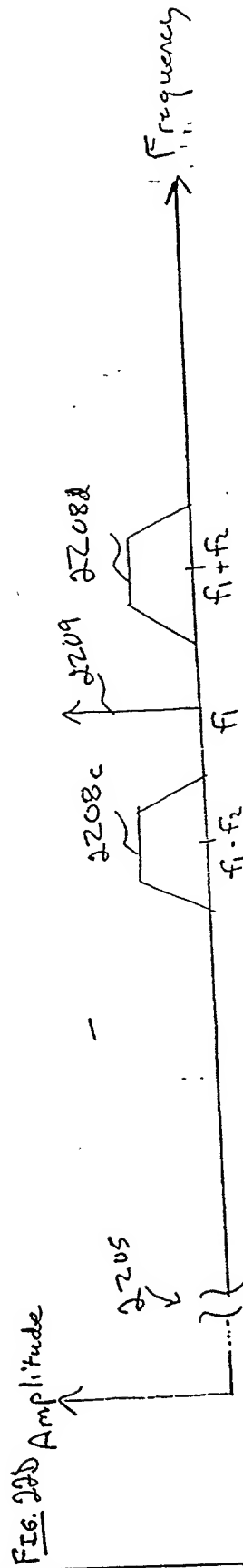
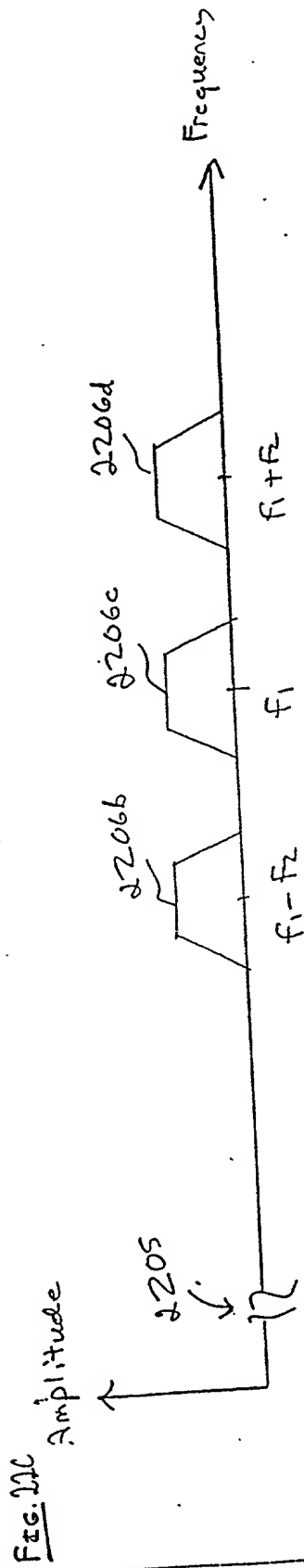
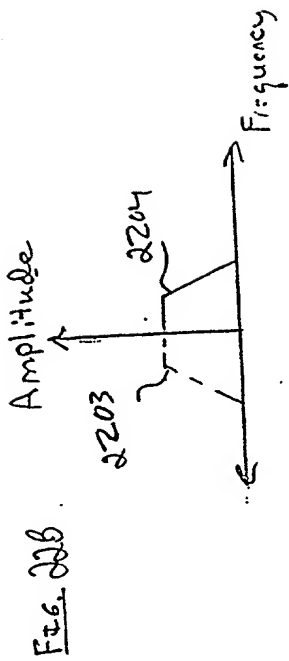
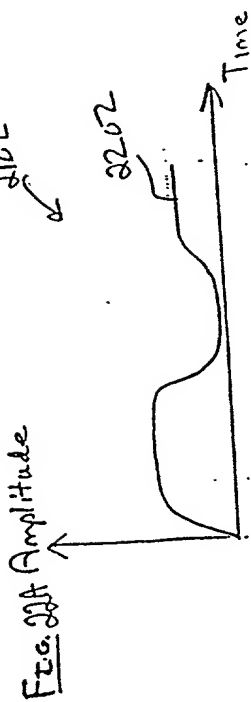
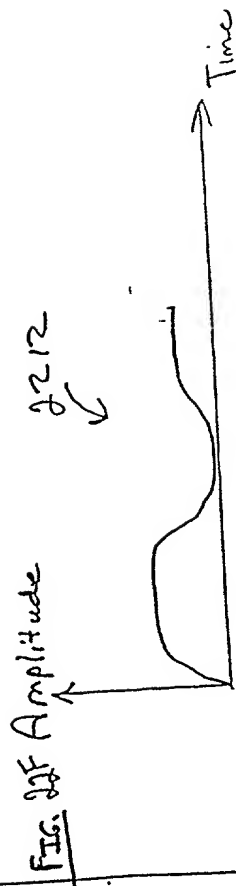
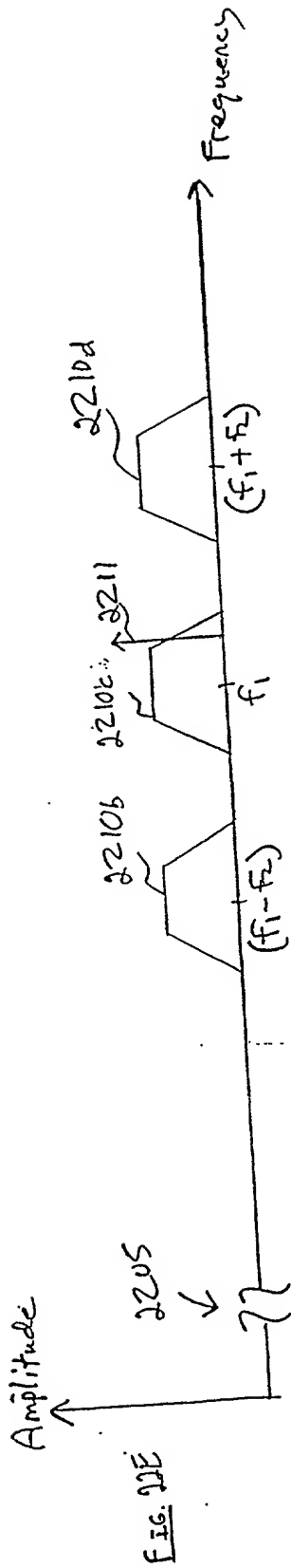


Fig. 21





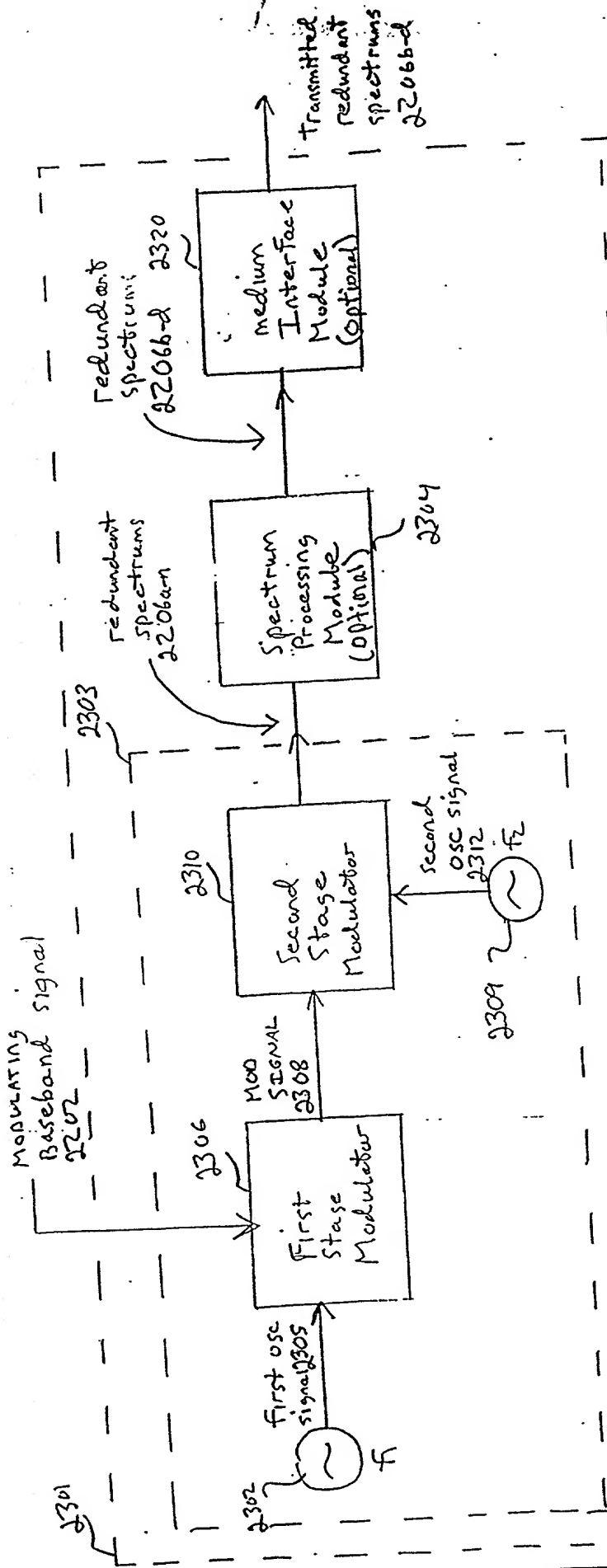
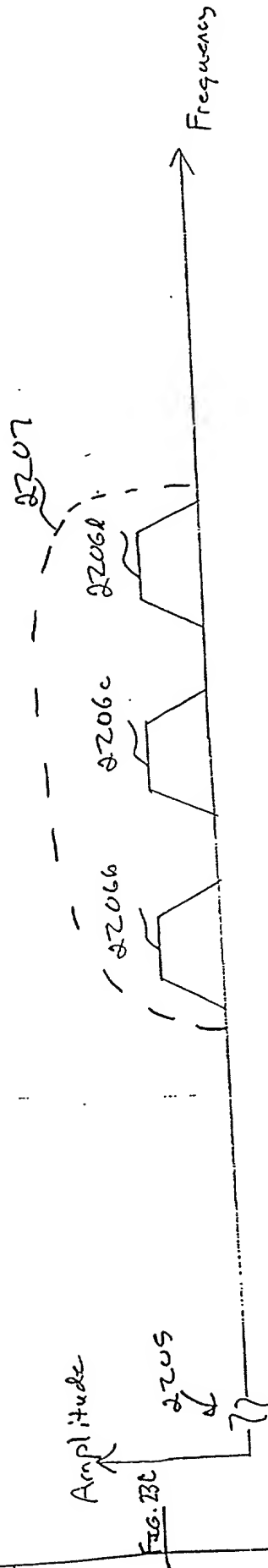
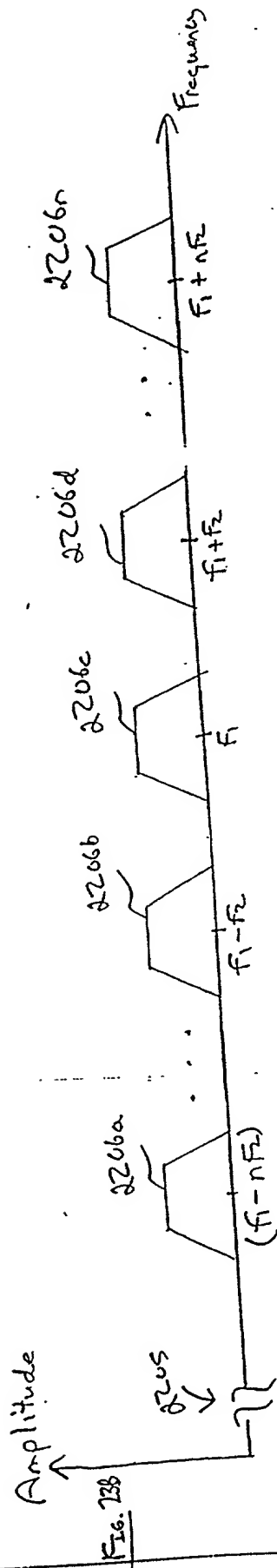


FIG. 23A





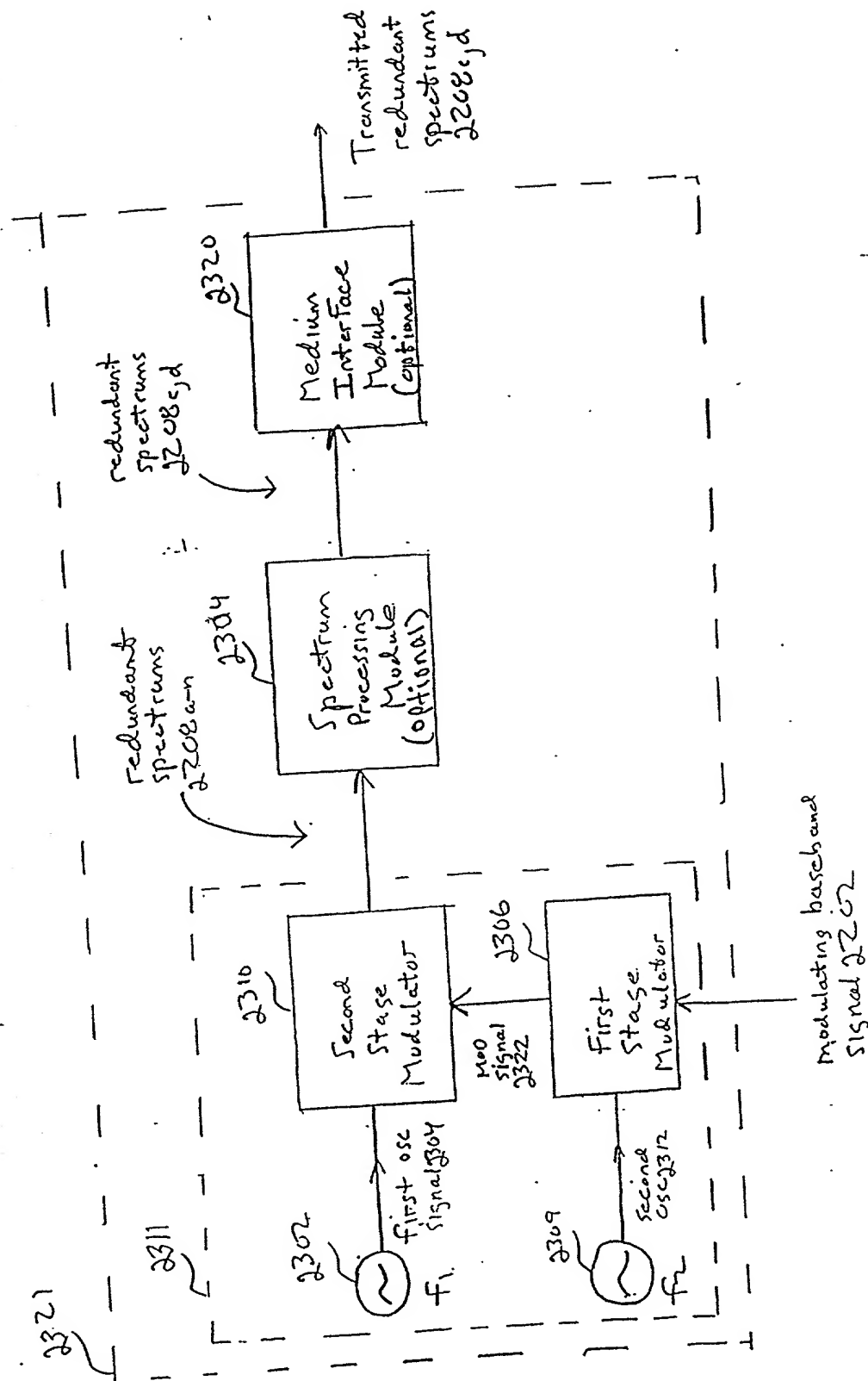


FIG. 23D

FIG. 23E

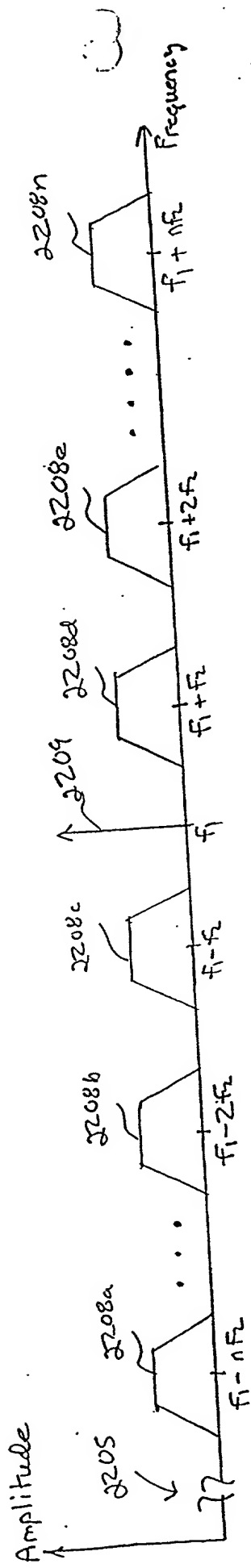


FIG. 23F

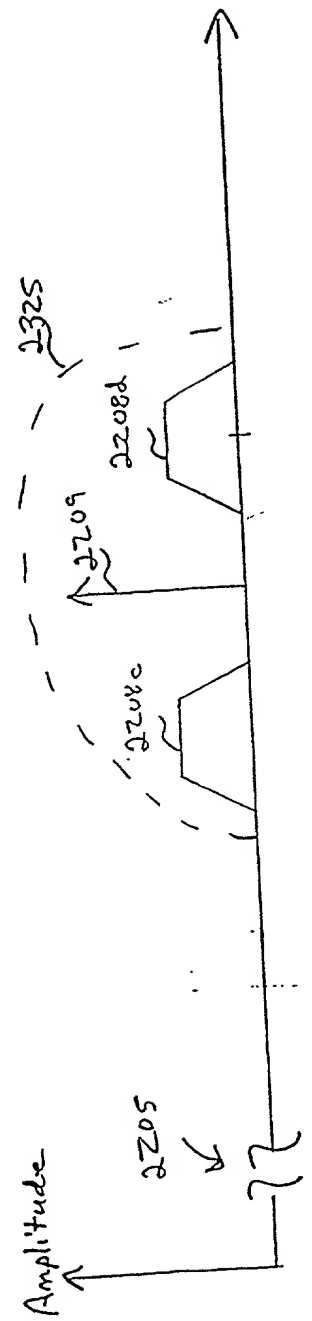
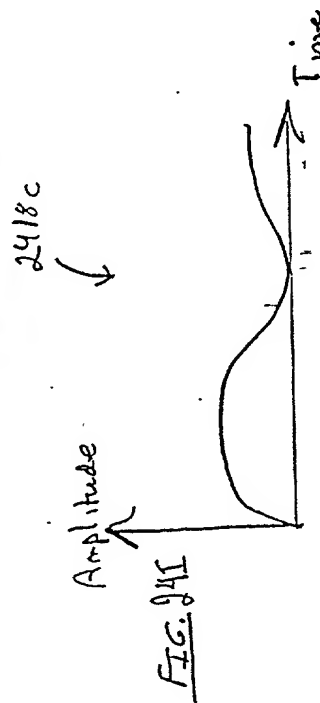
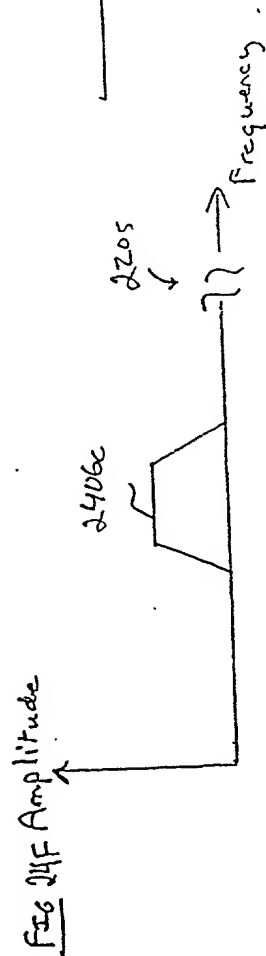
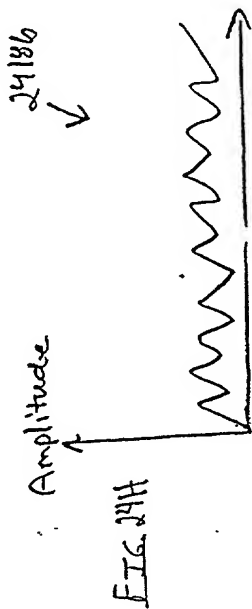
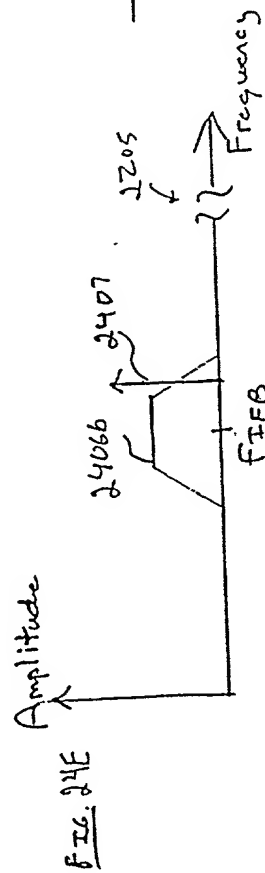
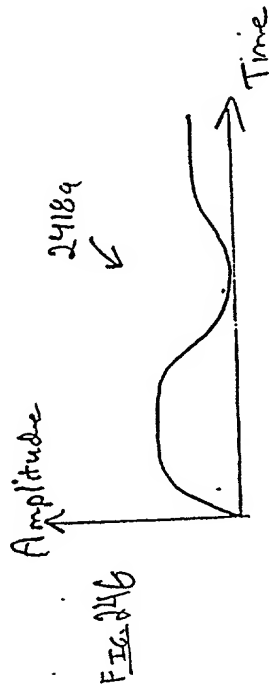
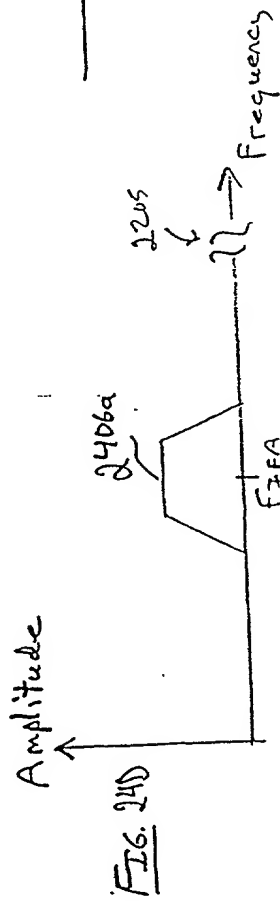




Fig. 24b

FIG. 24C.



42-381 50 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-382 100 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-383 200 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-384 400 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-385 800 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-386 1600 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-387 3200 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-388 6400 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-389 12800 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-390 25600 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-391 51200 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-392 102400 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-393 204800 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-394 409600 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-395 819200 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-396 1638400 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-397 3276800 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-398 6553600 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-399 13107200 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-400 26214400 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-401 52428800 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-402 104857600 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-403 209715200 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-404 419430400 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-405 838860800 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-406 1677721600 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-407 3355443200 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-408 6710886400 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-409 13421772800 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-410 26843545600 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-411 53687091200 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-412 107374182400 SHEETS 100% RECYCLED WHITE 8 SQUARE  
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 42-414 429496729600 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-415 858993459200 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-416 1717986918400 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-417 3435973836800 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-418 6871947673600 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-419 13743895347200 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-420 27487790694400 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-421 54975581388800 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-422 109951162777600 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-423 219902325555200 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-424 439804651110400 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-425 879609302220800 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-426 1759218604441600 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-427 3518437208883200 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-428 7036874417766400 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-429 14073748835532800 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-430 28147497671065600 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-431 56294995342131200 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-432 112589990684262400 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-433 225179981368524800 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-434 450359962737049600 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-435 900719925474099200 SHEETS 100% RECYCLED WHITE 8 SQUARE  
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 42-444 461168601842738790400 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-445 922337203685477580800 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-446 1844674407370955161600 SHEETS 100% RECYCLED WHITE 8 SQUARE  
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 42-449 14757395258967641292800 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-450 29514790517935282585600 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-451 59029581035870565171200 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-452 118059162071741130342400 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-453 236118324143482260684800 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-454 472236648286964521369600 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-455 944473296573929042739200 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-456 1888946593147858085478400 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-457 3777893186295716170956800 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-458 7555786372591432341913600 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-459 15111572745182864683827200 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-460 30223145490365729367654400 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-461 60446290980731458735308800 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-462 120892581961462917470617600 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-463 241785163922925834941235200 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-464 483570327845851669882470400 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-465 967140655691703339764940800 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-466 1934281311383406679529881600 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-467 3868562622766813359059763200 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-468 7737125245533626718119526400 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-469 15474250491067253436239052800 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-470 30948500982134506872478105600 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-471 61897001964269013744956211200 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-472 123794003928538027489912422400 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-473 247588007857076054979824844800 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-474 495176015714152109959649689600 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-475 990352031428304219919299379200 SHEETS 100% RECYCLED WHITE 8 SQUARE  
 42-476 1980704062856608439838598758400 SHEETS 100% RECYCLED WHITE 8 SQUARE  
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 42-478 7922816251426433759354395033600 SHEETS 100% RECYCLED WHITE 8 SQUARE  
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Patented 0529800

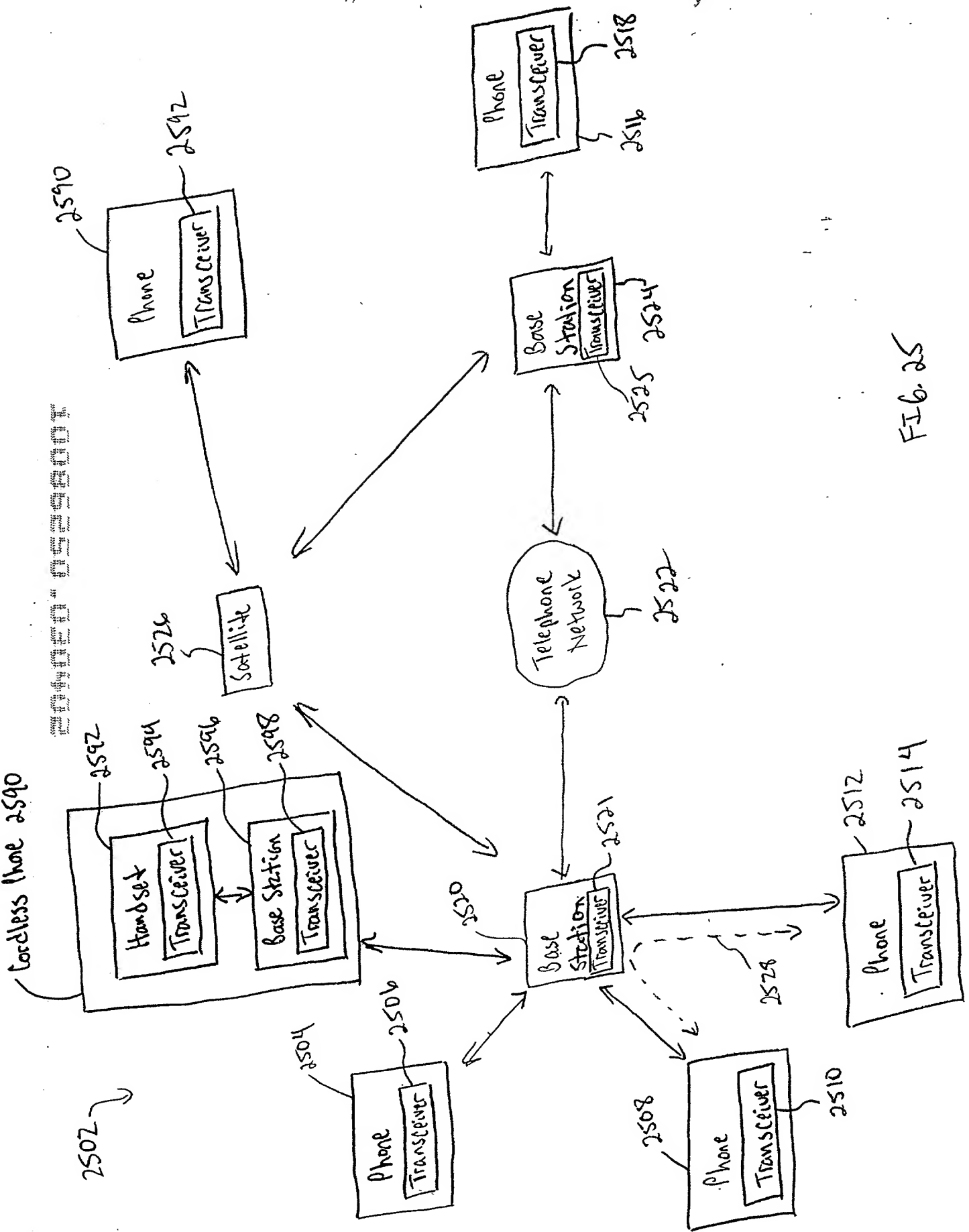


FIG. 25



FIG. 26

2602

Satellite 2604

Satellite 2606

2605

Satellite

positioning unit  
2608

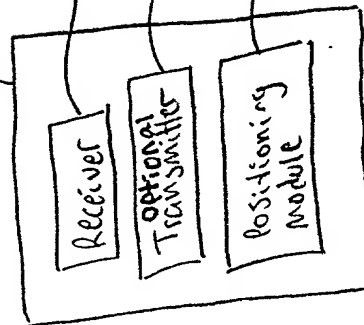


FIG. 26

2702

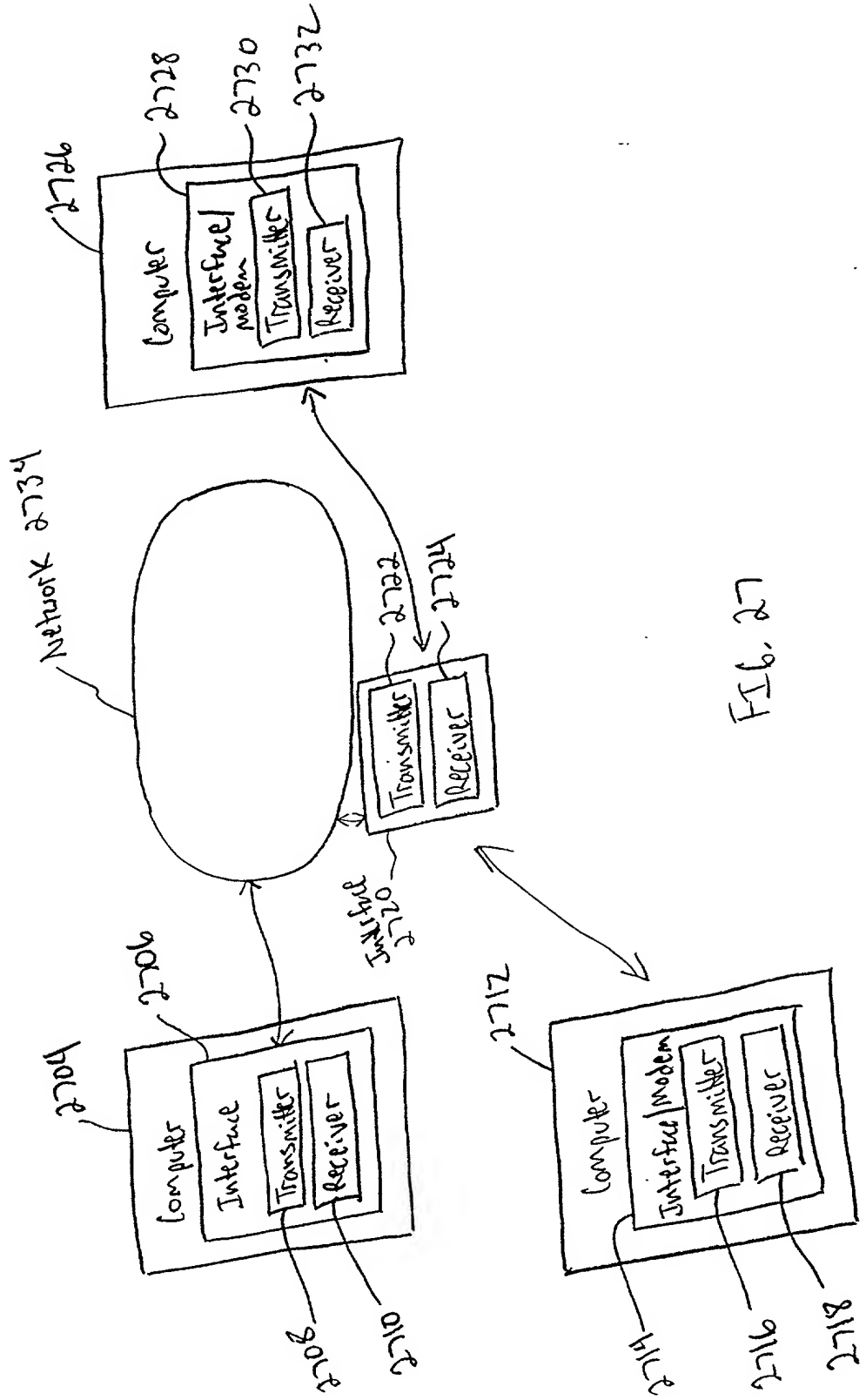


FIG. 27

FIG. 28

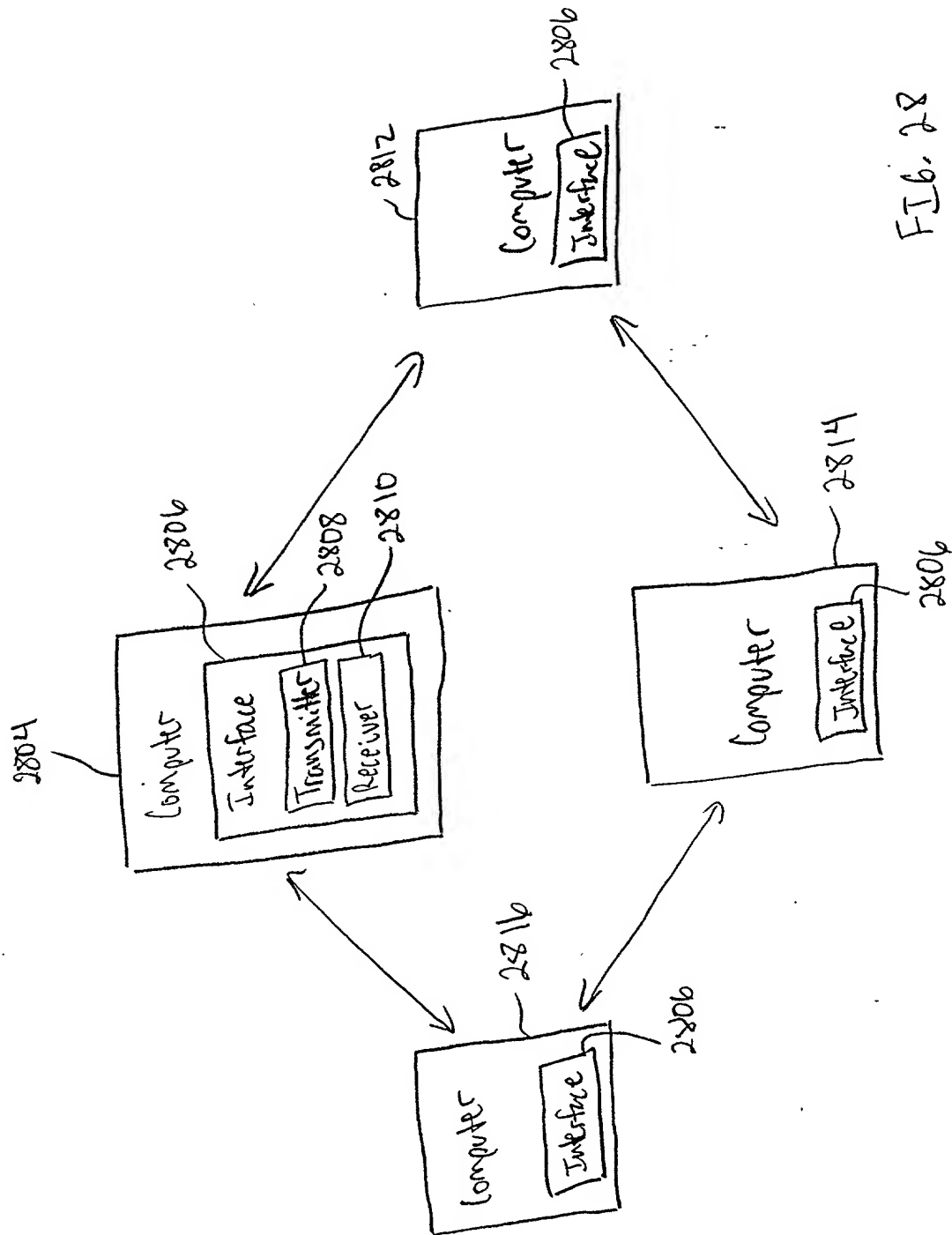


FIG. 28

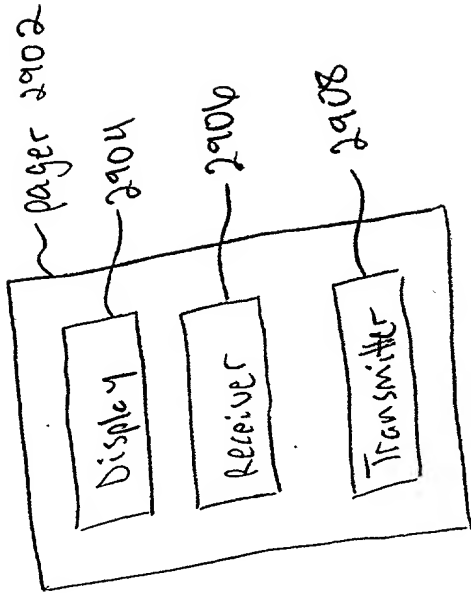


FIG. 29

2004

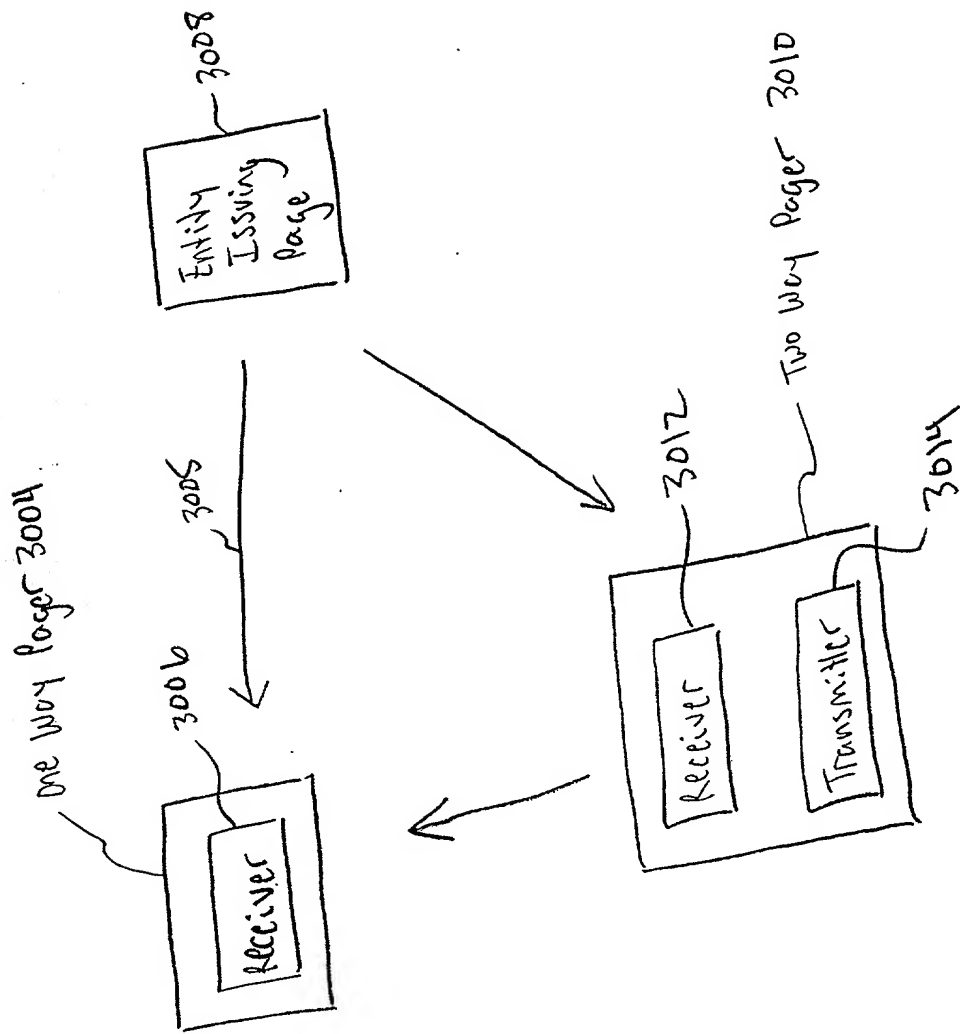


FIG. 30

8/11/18

3/34

M6

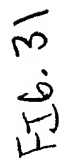


Fig. 31

3202

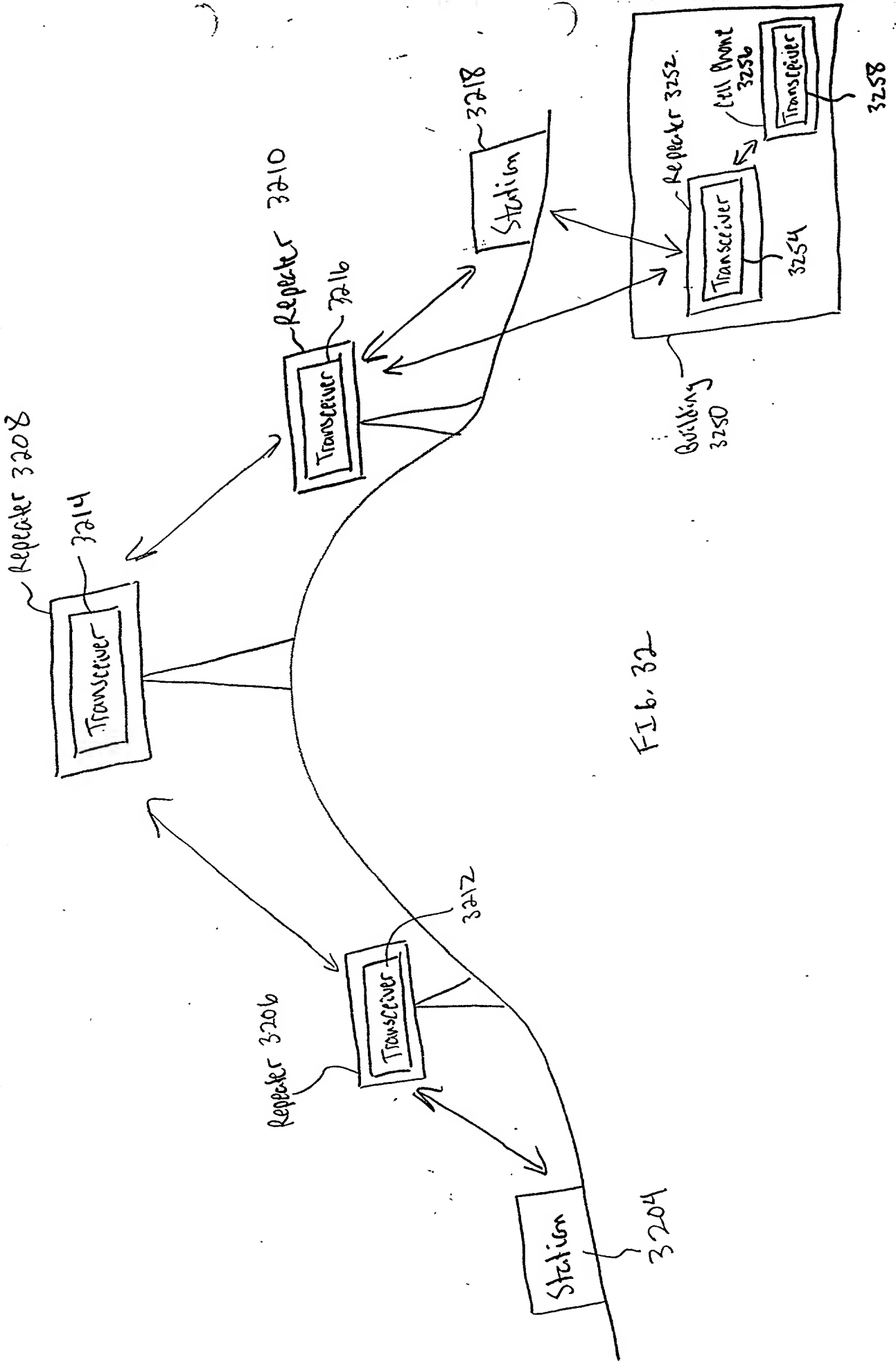


FIG. 32

3302

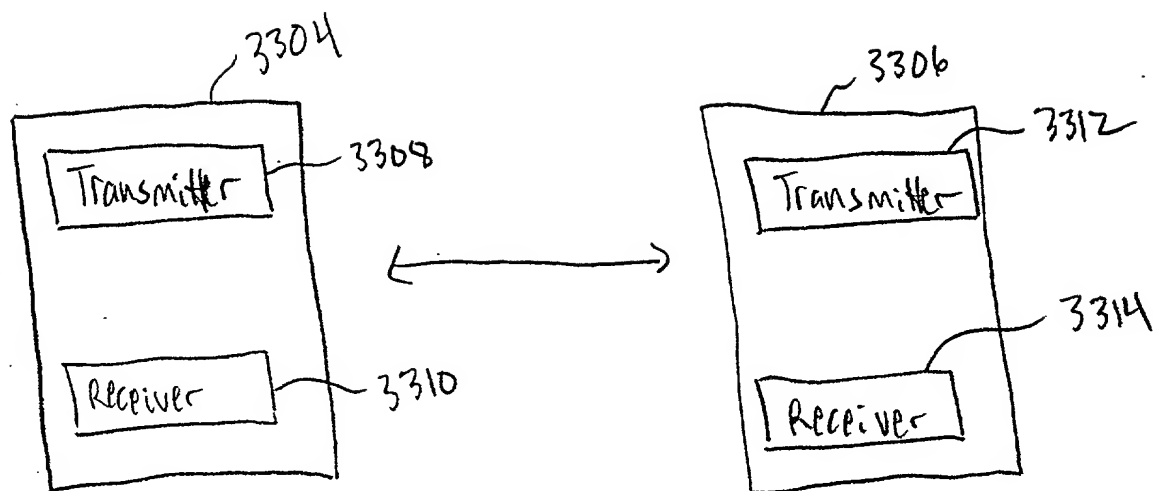


FIG. 33



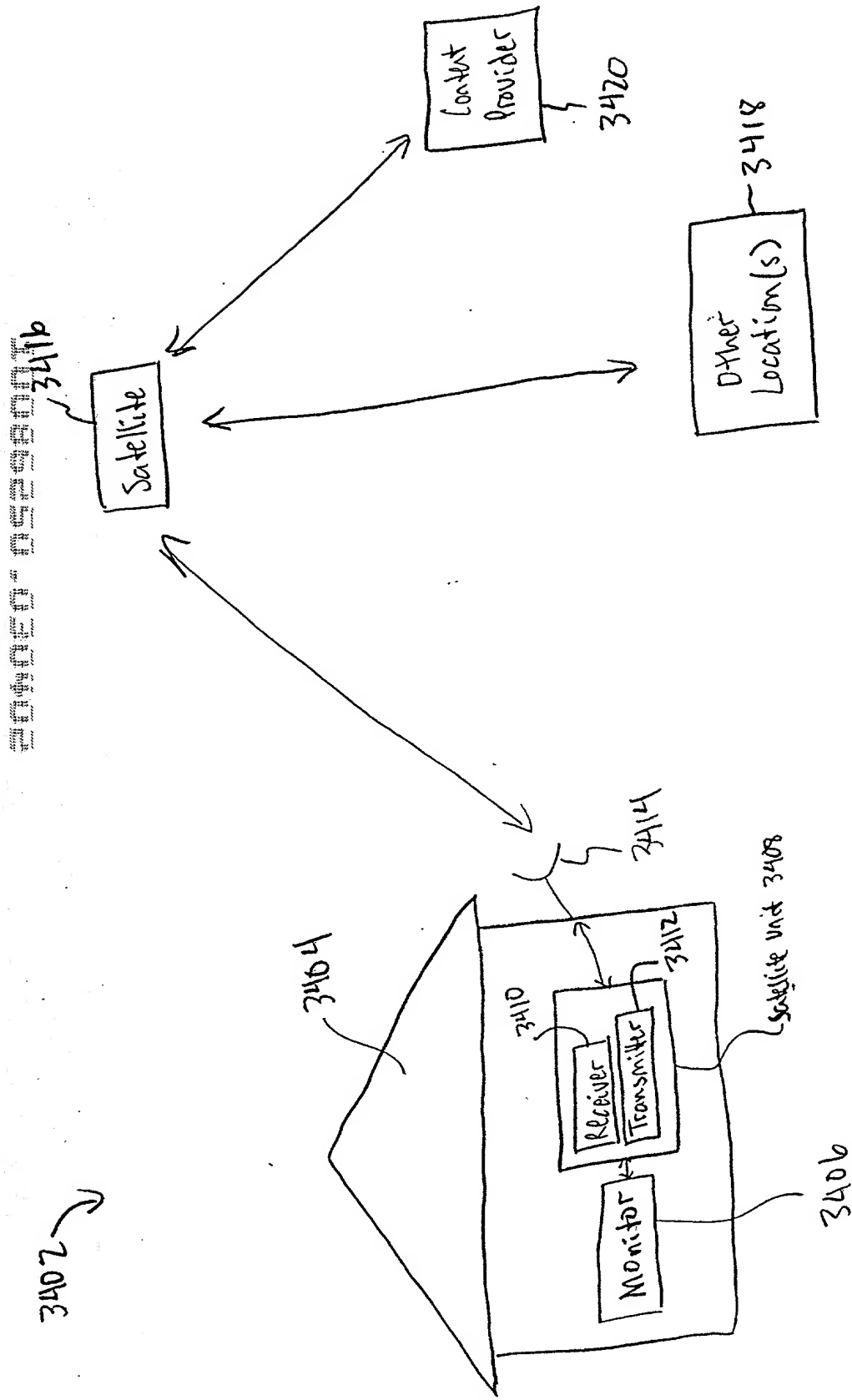


FIG. 34

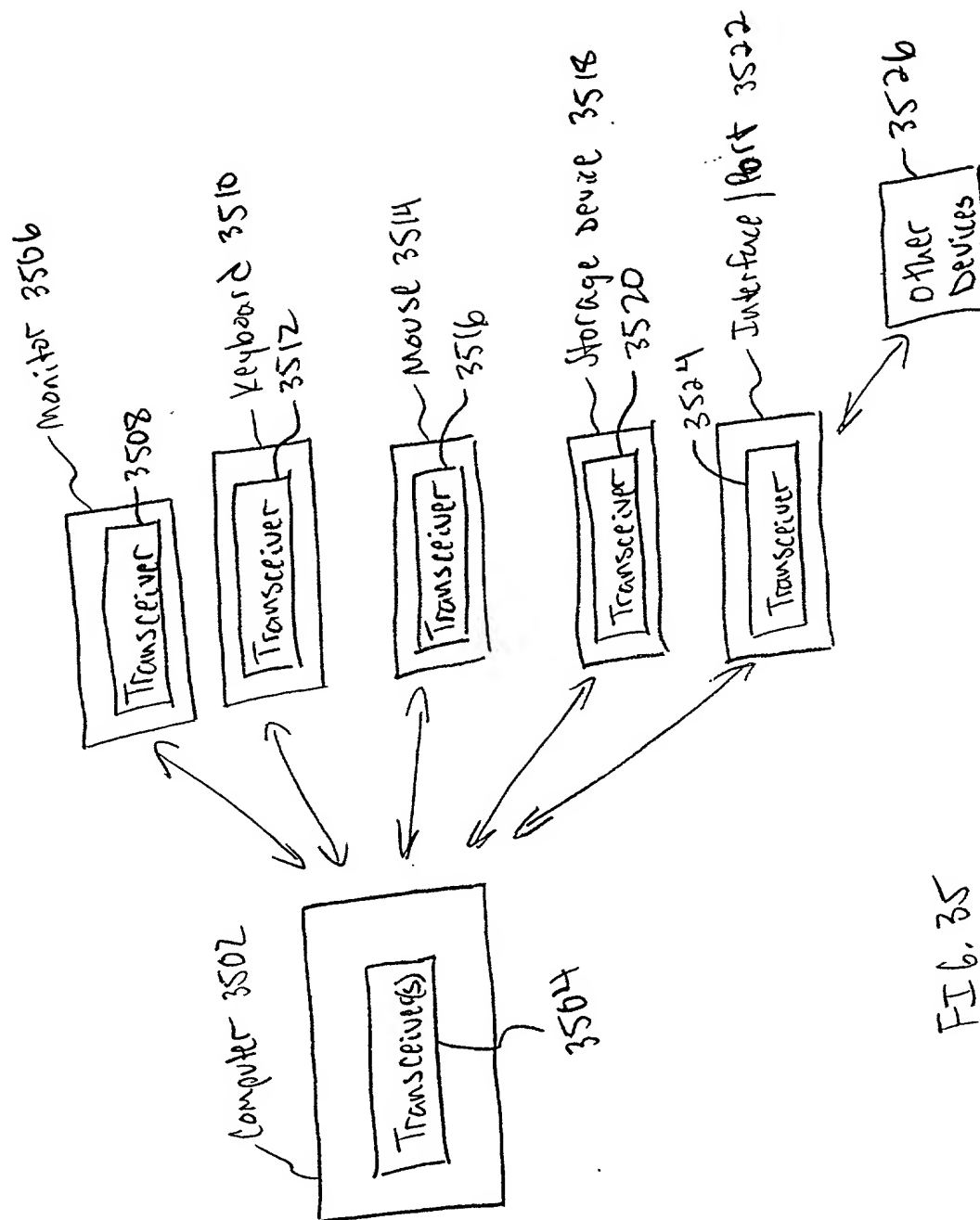
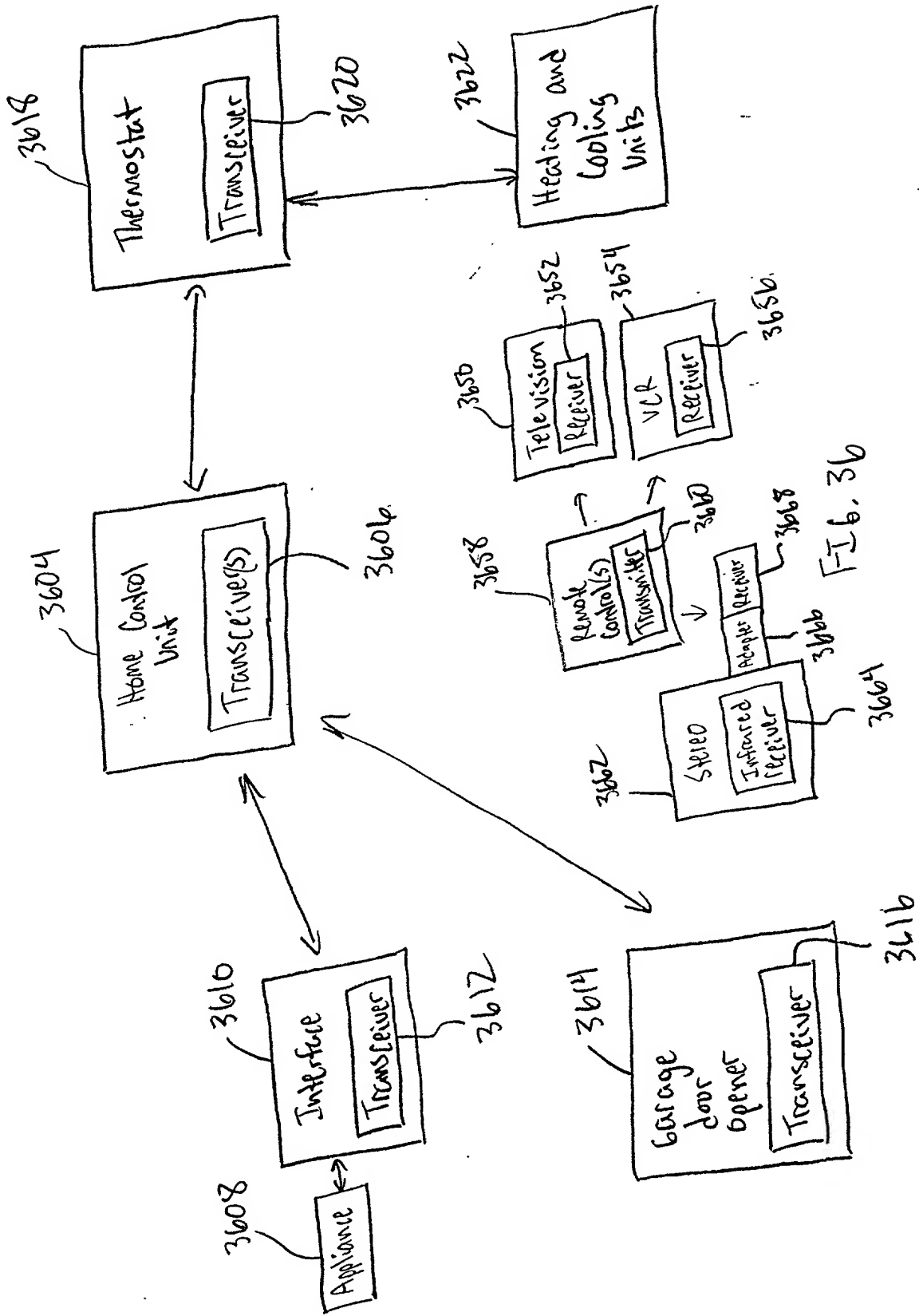


FIG. 35



3702

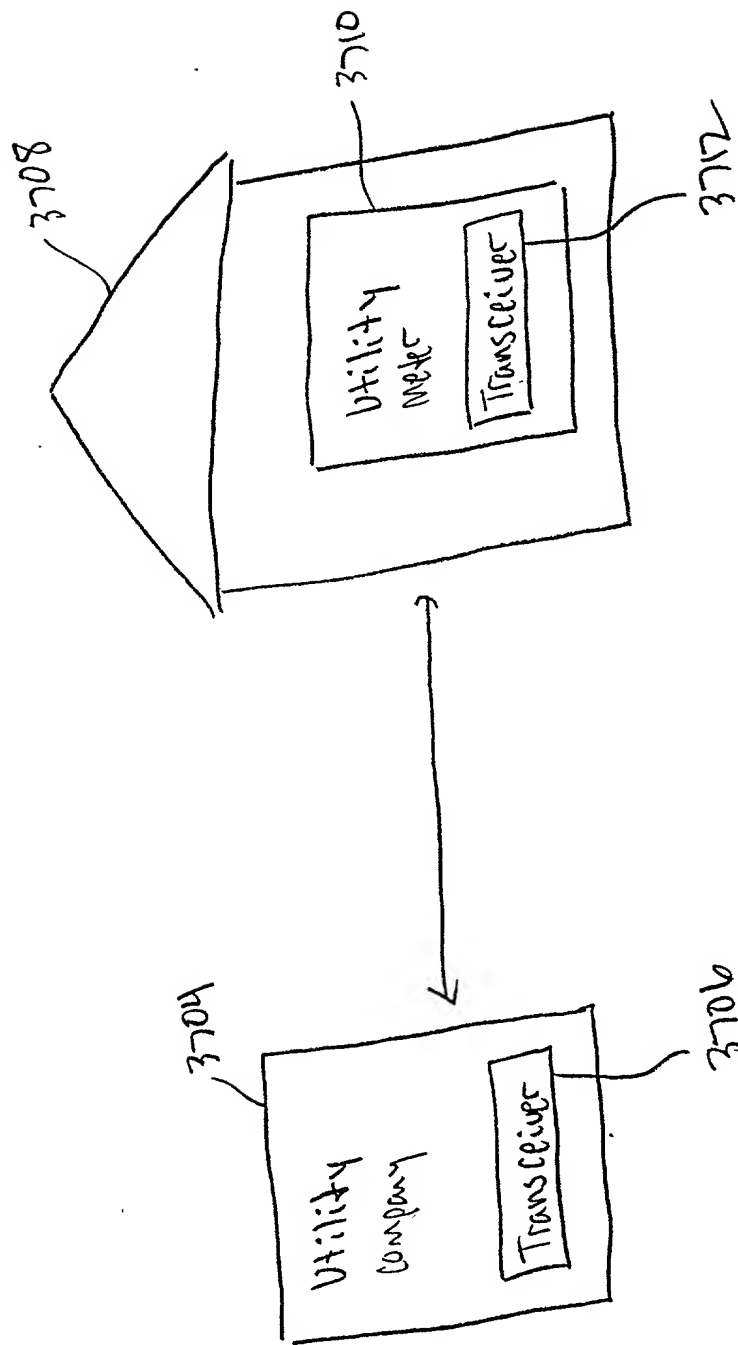


FIG. 37

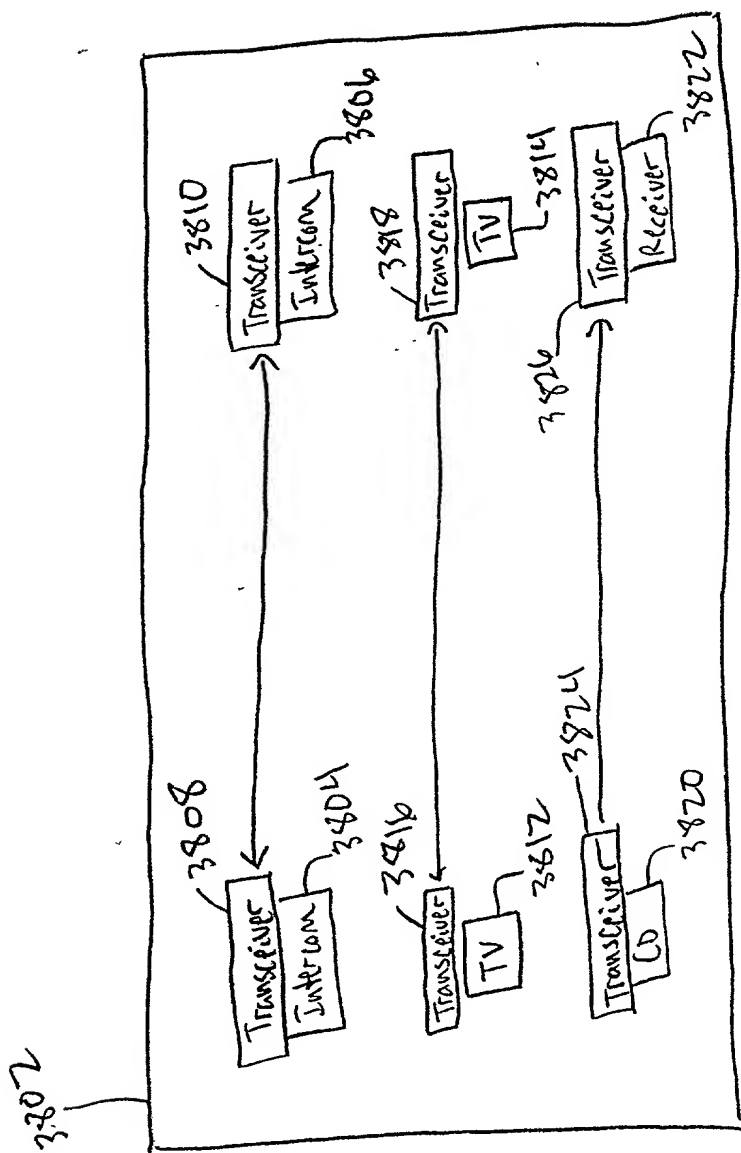


FIG. 38

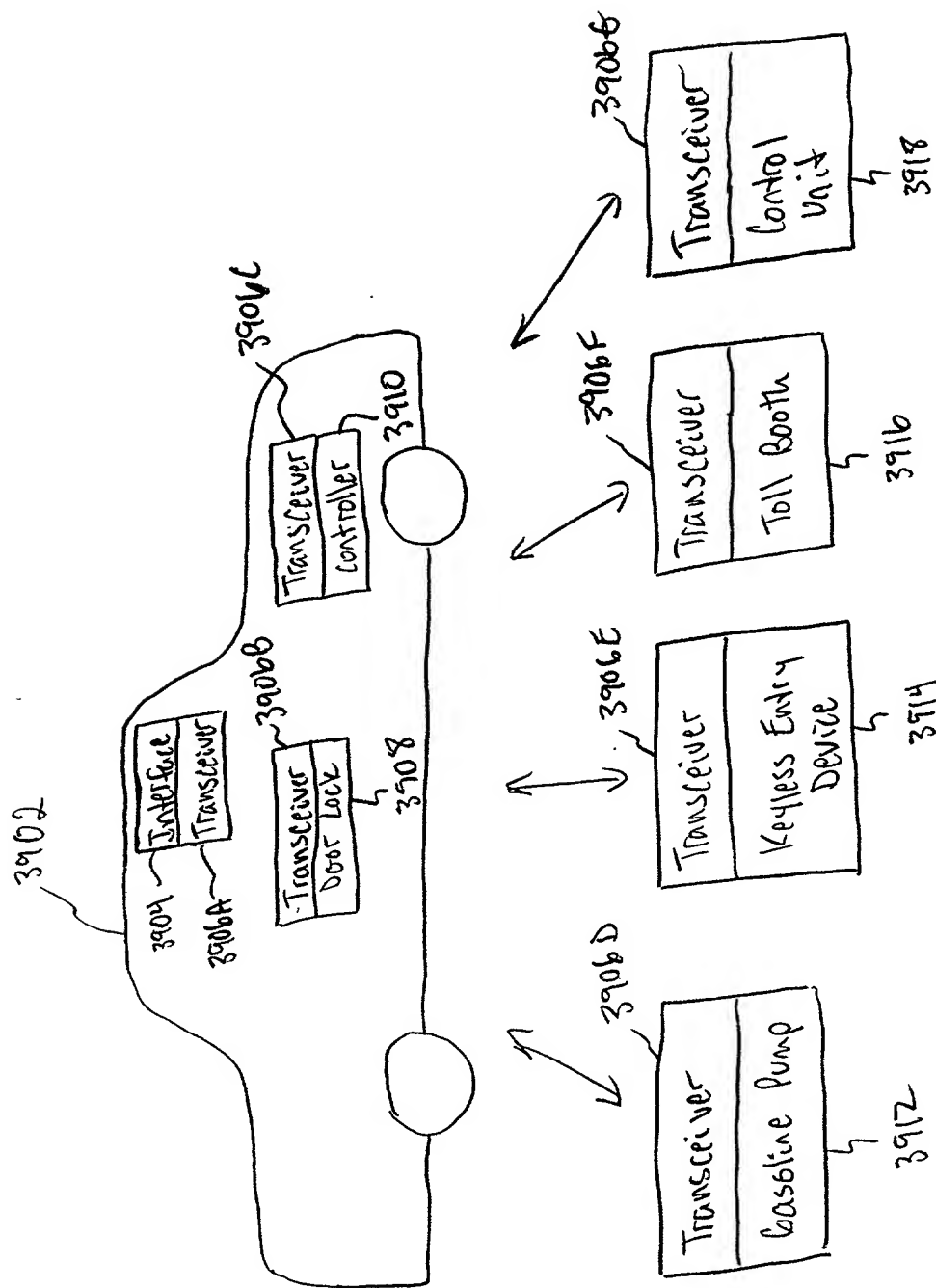


FIG. 39

2014-02-27 15:53:03

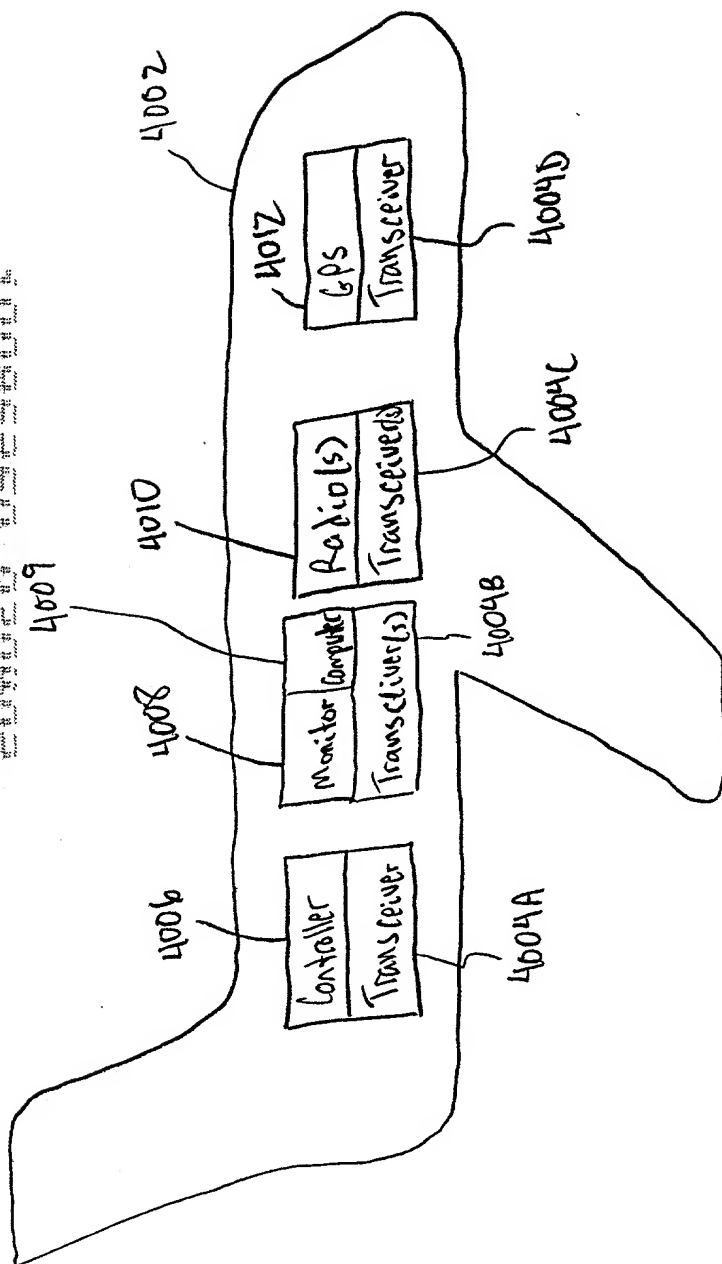


FIG. 40A

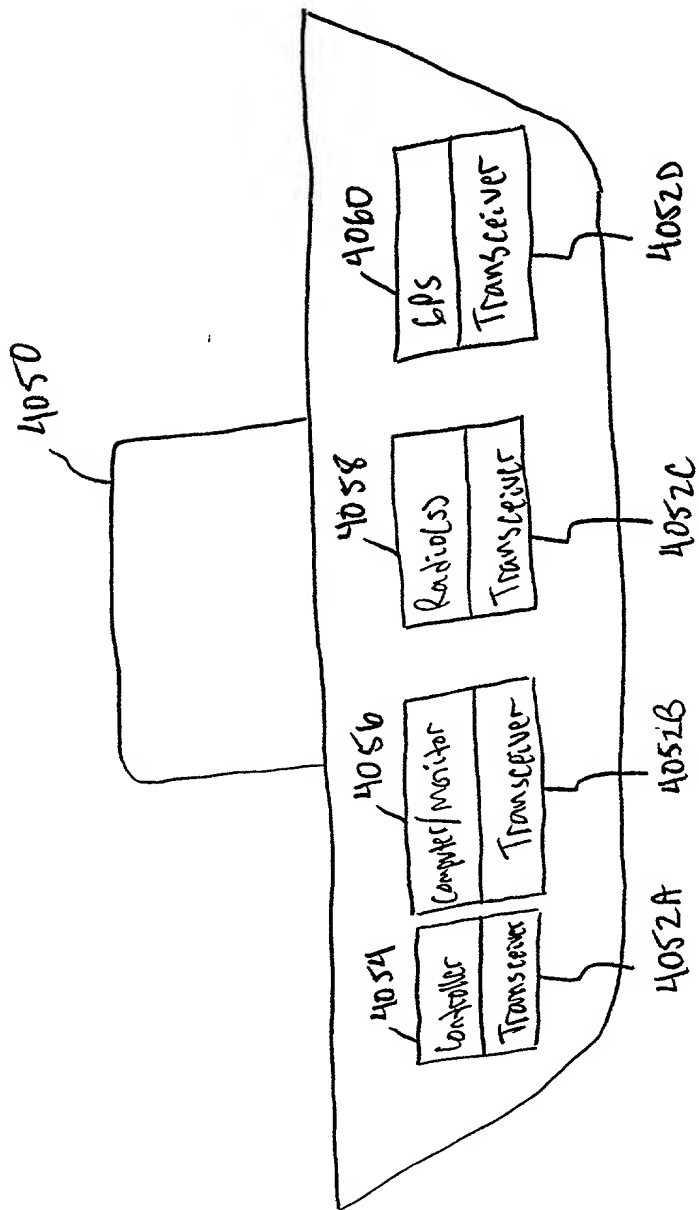


FIG. 40B



FIG. 41

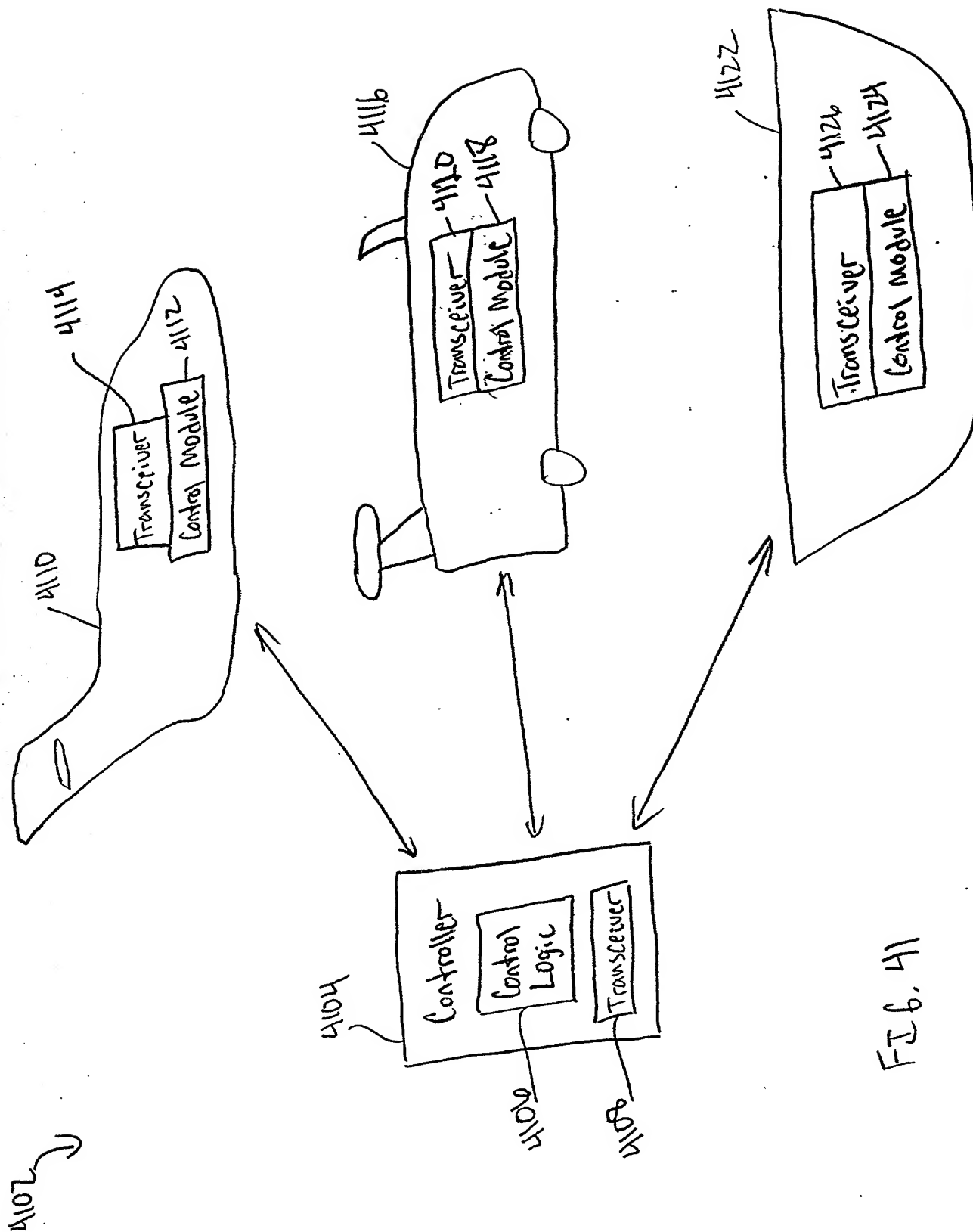
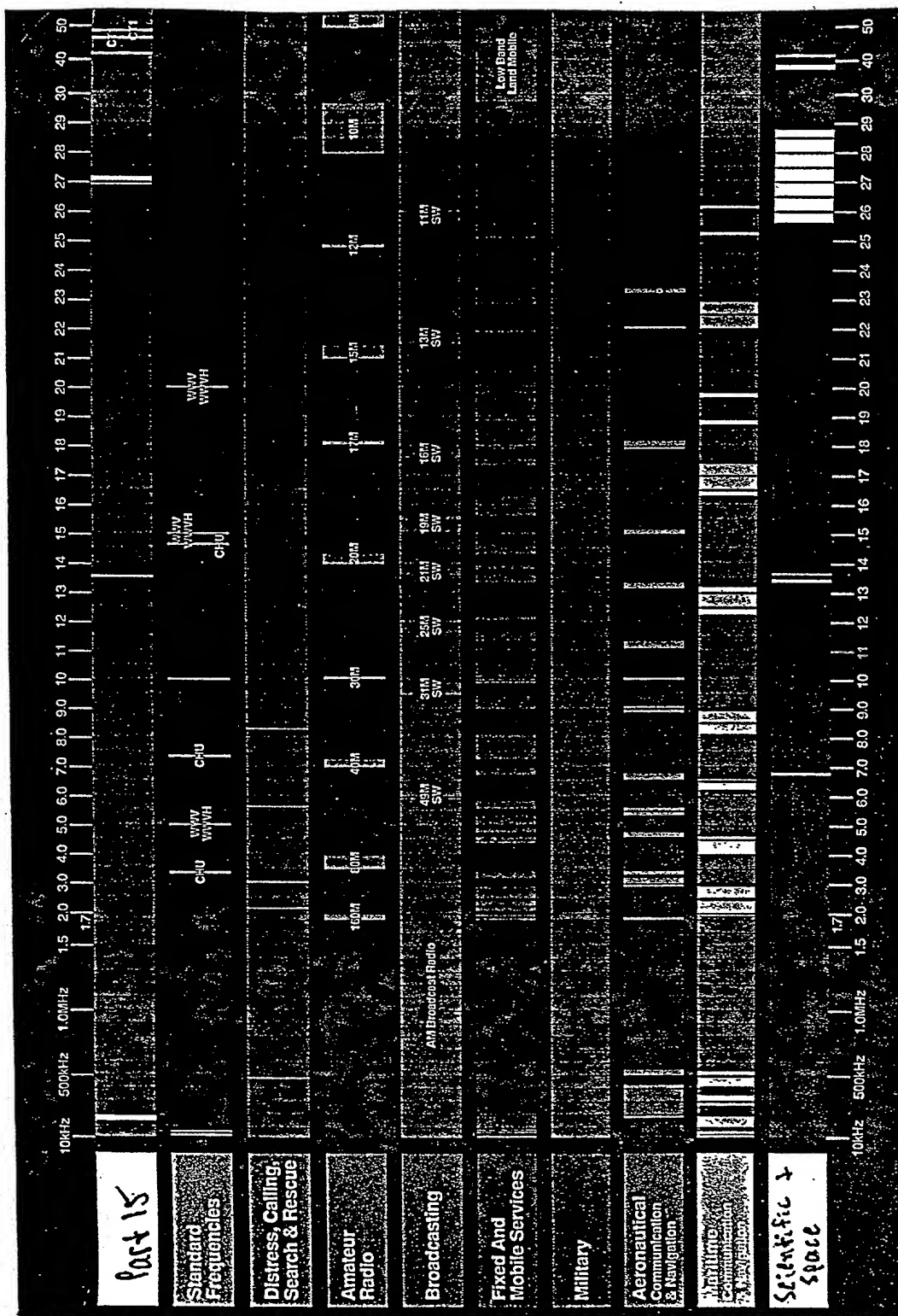
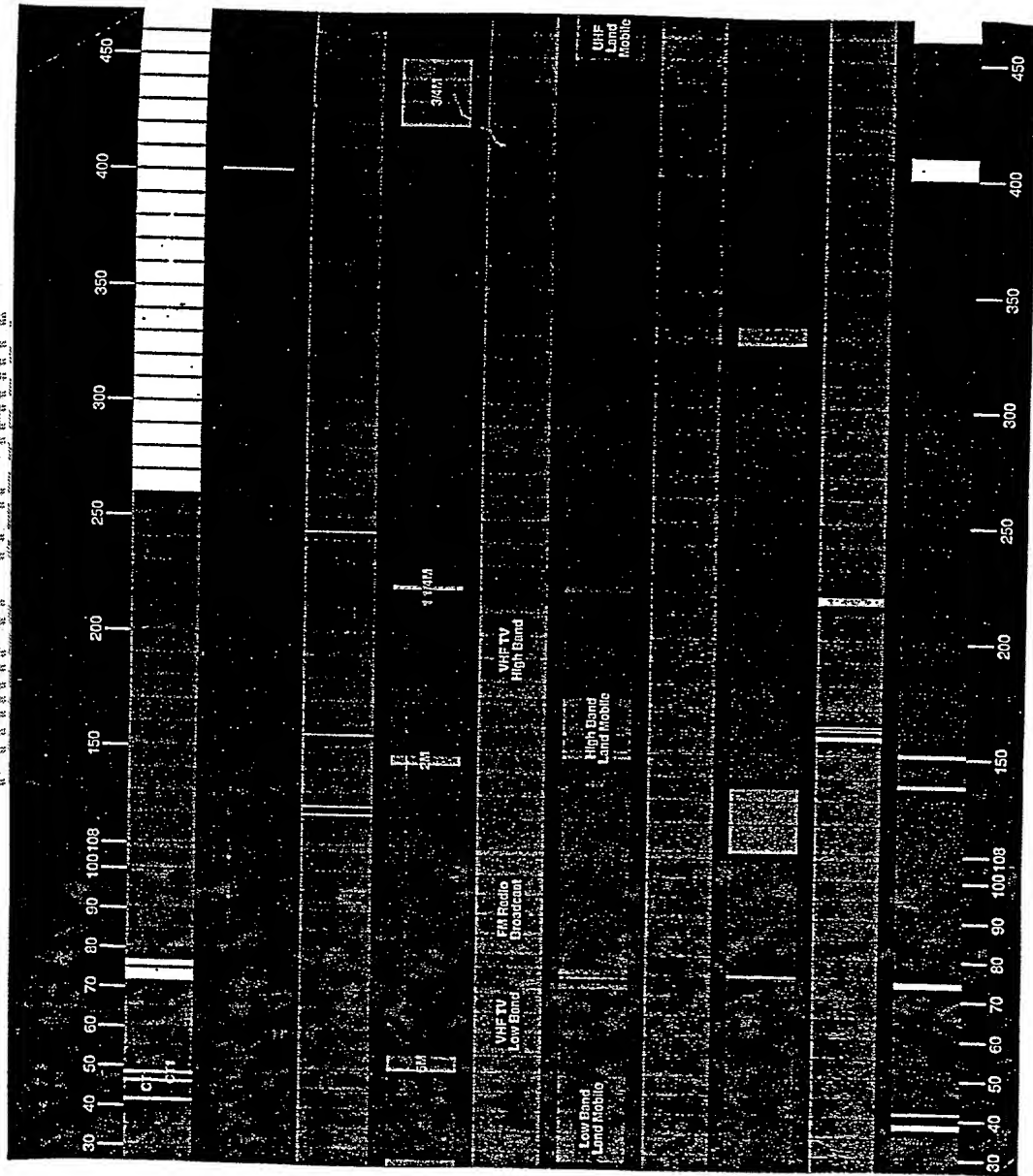


FIG. 41



FI 6.42A

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NATIONAL BUREAU OF STANDARDS



Fib. 428

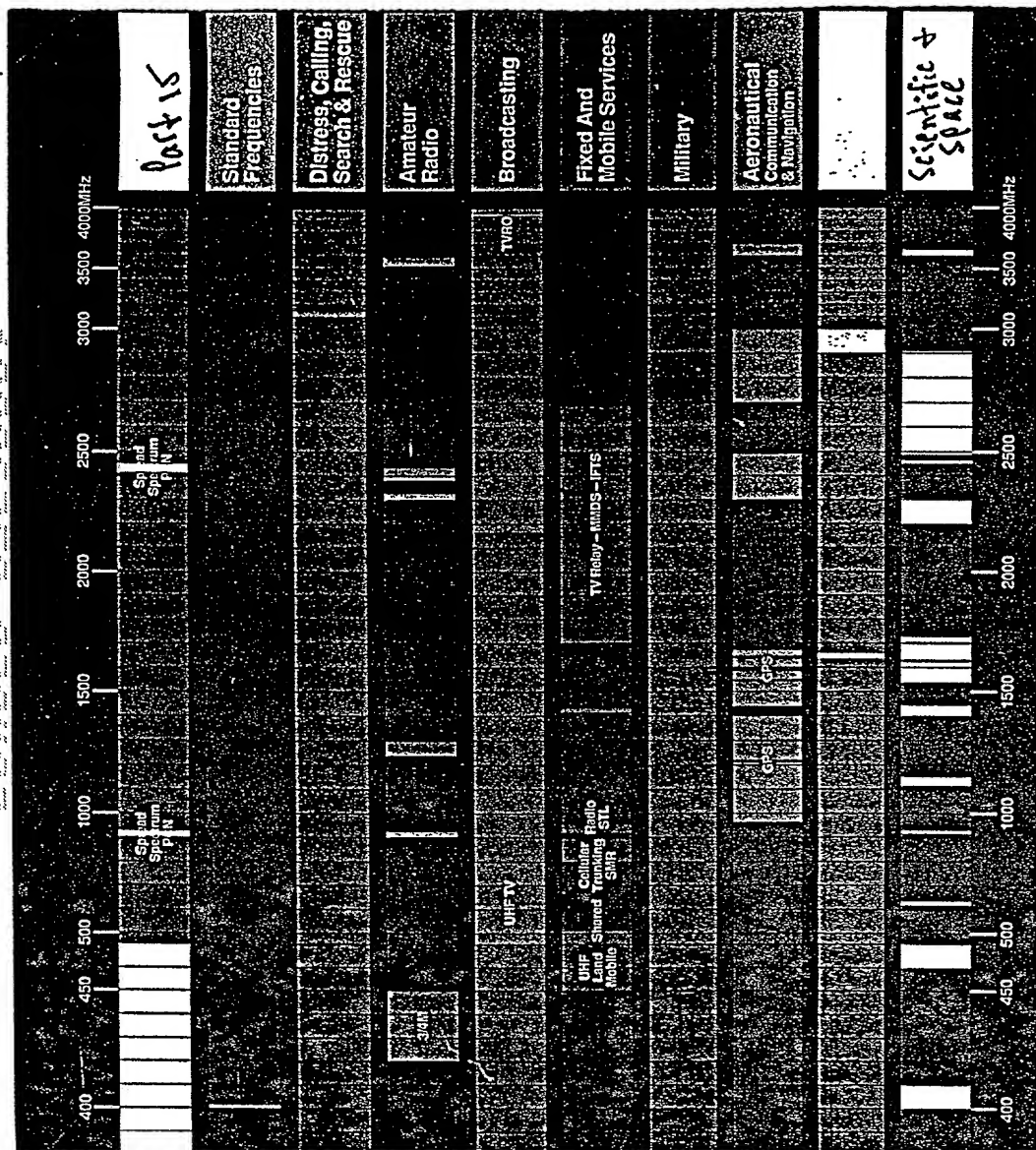


FIG. 42C

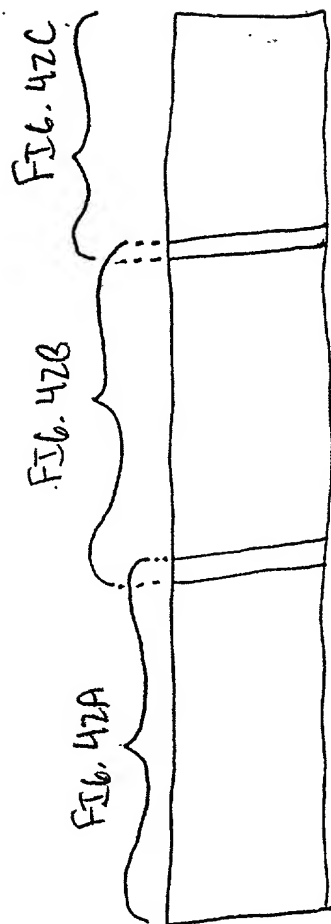


FIG. 42D

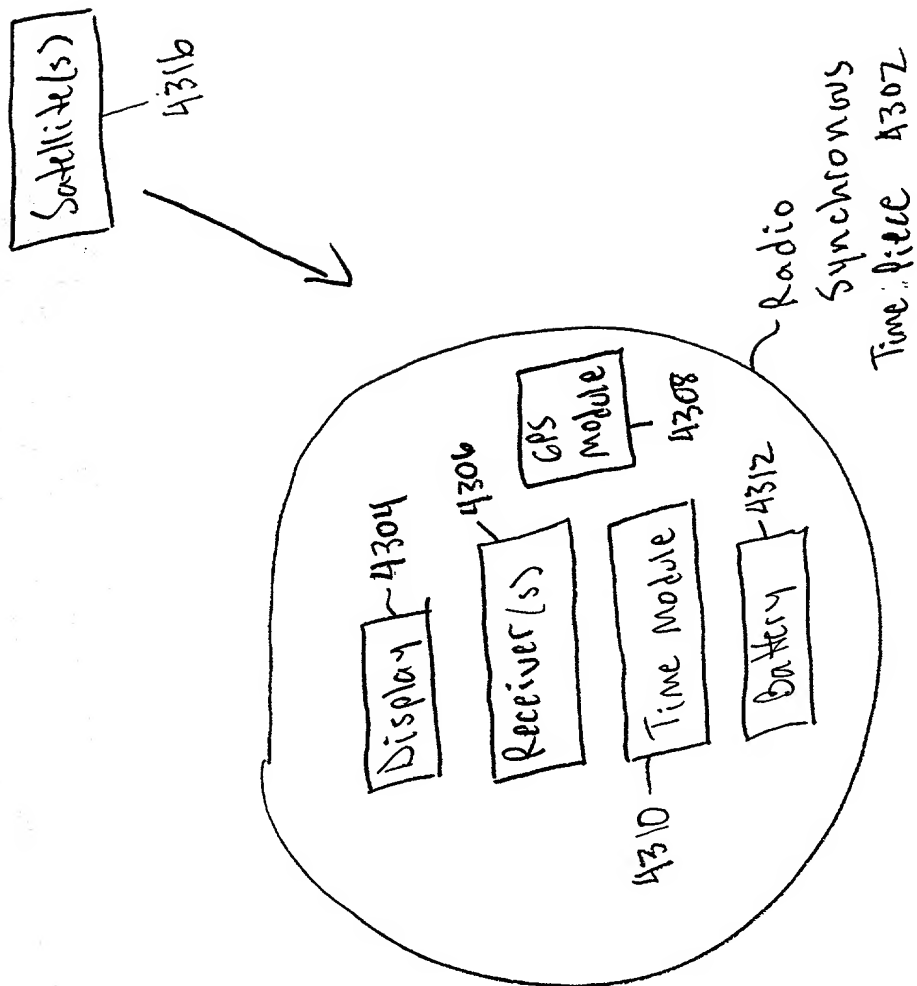


FIG. 43

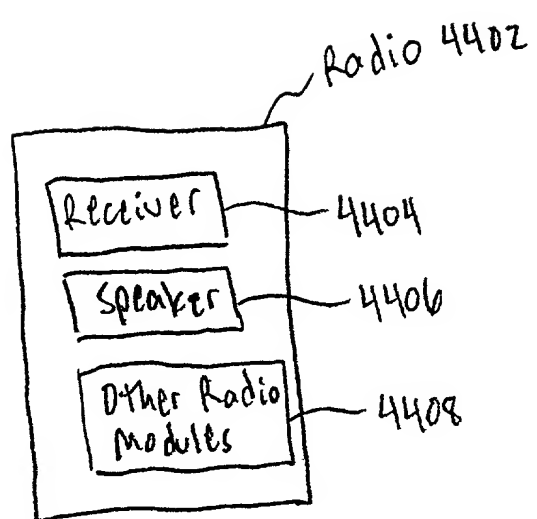


FIG. 44